Connecting via Winsock to STN

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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	DEC 01	ChemPort single article sales feature unavailable
NEWS	3	JAN 06	The retention policy for unread STNmail messages will change in 2009 for STN-Columbus and STN-Tokyo
NEWS	4	JAN 07	WPIDS, WPINDEX, and WPIX enhanced Japanese Patent Classification Data
NEWS	5	FEB 02	Simultaneous left and right truncation (SLART) added for CERAB, COMPUAB, ELCOM, and SOLIDSTATE
NEWS	6	FEB 02	GENBANK enhanced with SET PLURALS and SET SPELLING
NEWS	7	FEB 06	Patent sequence location (PSL) data added to USGENE
NEWS	8	FEB 10	COMPENDEX reloaded and enhanced
NEWS	9	FEB 11	WTEXTILES reloaded and enhanced
NEWS	10	FEB 19	New patent-examiner citations in 300,000 CA/CAplus patent records provide insights into related prior art
NEWS	11	FEB 19	Increase the precision of your patent queries -- use terms from the IPC Thesaurus, Version 2009.01
NEWS	12	FEB 23	Several formats for image display and print options discontinued in USPATFULL and USPAT2
NEWS	13	FEB 23	MEDLINE now offers more precise author group fields and 2009 MeSH terms
NEWS	14	FEB 23	TOXCENTER updates mirror those of MEDLINE - more precise author group fields and 2009 MeSH terms
NEWS	15	FEB 23	Three million new patent records blast AEROSPACE into STN patent clusters
NEWS	16	FEB 25	USGENE enhanced with patent family and legal status display data from INPADOCDB
NEWS	17	MAR 06	INPADOCDB and INPAFAMDB enhanced with new display formats
NEWS	18	MAR 11	EPFULL backfile enhanced with additional full-text applications and grants
NEWS	19	MAR 11	ESBIOBASE reloaded and enhanced
NEWS	20	MAR 20	CAS databases on STN enhanced with new super role for nanomaterial substances
NEWS	21	MAR 23	CA/CAplus enhanced with more than 250,000 patent equivalents from China
NEWS	22	MAR 30	IMSPATENTS reloaded and enhanced
NEWS	23	APR 03	CAS coverage of exemplified prophetic substances enhanced
NEWS	24	APR 07	STN is raising the limits on saved answers

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items

NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 07:39:40 ON 20 APR 2009

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.44	0.44

FILE 'REGISTRY' ENTERED AT 07:41:03 ON 20 APR 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 19 APR 2009 HIGHEST RN 1136834-47-3
DICTIONARY FILE UPDATES: 19 APR 2009 HIGHEST RN 1136834-47-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

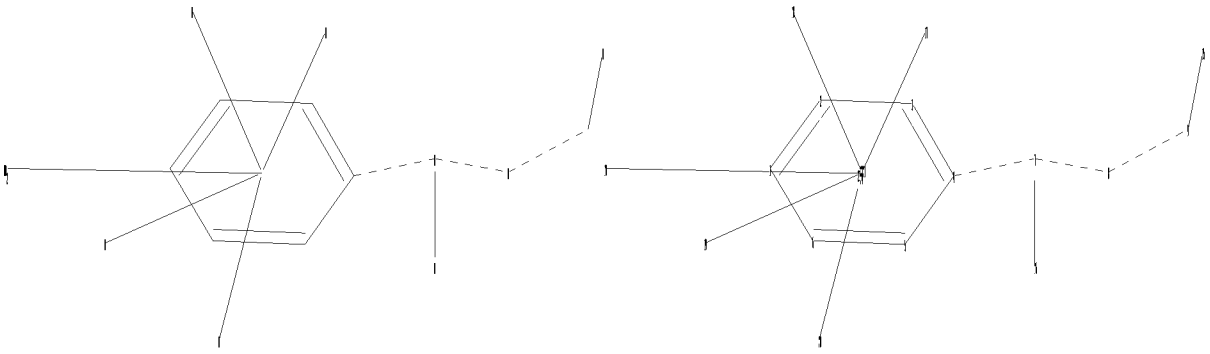
TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\QUERIES\10551414.str



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chain nodes :
7  8  9  10  15  16  17  18  19  20
ring nodes :
1  2  3  4  5  6
chain bonds :
4-7  7-8  7-16  8-9  9-15
ring bonds :
1-6  1-2  2-3  3-4  4-5  5-6
exact/norm bonds :
4-7  7-8  8-9
exact bonds :
7-16  9-15
normalized bonds :
1-6  1-2  2-3  3-4  4-5  5-6
isolated ring systems :
containing 1 :


G1:C,O,N,X,Cy

Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  7:CLASS  8:CLASS  9:CLASS
10:CLASS  12:CLASS  15:CLASS  16:CLASS  17:CLASS  18:CLASS  19:CLASS  20:CLASS
21:CLASS  22:CLASS  23:CLASS  24:CLASS
Element Count :
Node 10: Limited
    C,C3
    O,O1
    N,N1
    S,S0




L1      STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1              STR
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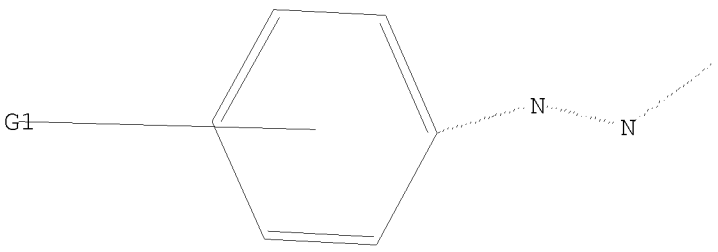


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G1 C,O,N,X,Cy


Structure attributes must be viewed using STN Express query preparation.


=> s l1
SAMPLE SEARCH INITIATED 07:41:22 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    33624 TO ITERATE
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  5.9% PROCESSED     2000 ITERATIONS                              50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       661513 TO   683447
PROJECTED ANSWERS:          128919 TO   138727

L2           50 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 07:42:38 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   675631 TO ITERATE

 99.1% PROCESSED   669405 ITERATIONS                          141013 ANSWERS

100.0% PROCESSED   675631 ITERATIONS                          141072 ANSWERS
SEARCH TIME: 00.00.18

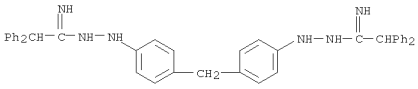
L3       141072 SEA SSS FUL L1

=> s l3 and caplus/lc
      65278505 CAPLUS/LC
L4      104285 L3 AND CAPLUS/LC

=> s l3 not l4
L5       36787 L3 NOT L4

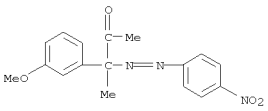
=> d 36750-36787
```

L5 ANSWER 36750 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 4172-85-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN Acetamide, 2,2-diphenyl-, 1,1'-(methylenedi-p-phenylene)dihydrazone (8CI)
    (CA INDEX NAME)
MF C41 H38 N6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36751 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 4106-26-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2-Butanone, 3-(3-methoxyphenyl)-3-[2-(4-nitrophenyl)diazenyl]- (CA INDEX
    NAME)
OTHER CA INDEX NAMES:
CN 2-Butanone, 3-(m-methoxyphenyl)-3-[(p-nitrophenyl)azo]-, acetate (8CI)
MF C17 H17 N3 O4

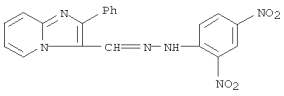


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36752 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 4045-01-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN Imidazo[1,2-a]pyridine-3-carboxaldehyde, 2-phenyl-,
    2-(2,4-dinitrophenyl)hydrazone, sulfate (1:1) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Imidazo[1,2-a]pyridine-3-carboxaldehyde, 2-phenyl-,
    (2,4-dinitrophenyl)hydrazone, sulfate (1:1) (9CI)
MF C20 H14 N6 O4 . H2 O4 S

    CM 1

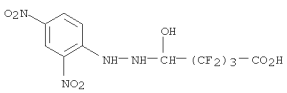
    CRN 47654-58-0
    CMF C20 H14 N6 O4



    CM 2

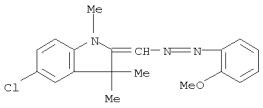
    CRN 7664-93-9
    CMF H2 O4 S

L5 ANSWER 36753 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 3780-36-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN Pentanoic acid,
5-[2-(2,4-dinitrophenyl)hydrazinyl]-2,2,3,3,4,4-hexafluoro-
    5-hydroxy- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Pentanoic acid,
5-[2-(2,4-dinitrophenyl)hydrazino]-2,2,3,3,4,4-hexafluoro-
    5-hydroxy- (9CI)
MF C11 H8 F6 N4 O7



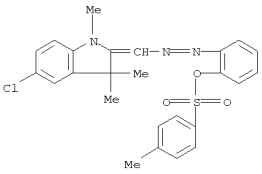
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36754 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 3779-94-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indole, 5-chloro-2,3-dihydro-2-[[2-(2-methoxyphenyl)diazenyl]methylene]-1,3,3-trimethyl- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1H-Indole, 5-chloro-2,3-dihydro-2-[[(2-methoxyphenyl)azo]methylene]-1,3,3-trimethyl- (9CI)
MF C19 H20 Cl N3 O



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

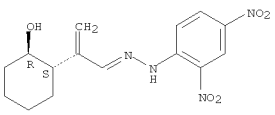
L5 ANSWER 36755 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 3779-93-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Phenol, 2-[[(5-chloro-1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]azo]-, 4-methylbenzenesulfonate (ester) (9CI) (CA INDEX NAME)
MF C25 H24 Cl N3 O3 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

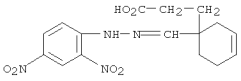
L5 ANSWER 36756 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 3727-51-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Cyclohexaneacetaldehyde, 2-hydroxy-α-methylene-, (2,4-dinitrophenyl)hydrazone, trans- (8CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C15 H18 N4 O5
LC STN Files: BEILSTEIN*
(*File contains numerically searchable property data)

Relative stereochemistry.
Double bond geometry unknown.



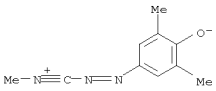
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36757 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 3621-56-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 3-Cyclohexene-1-propanoic acid, 1-[[2-(2,4-dinitrophenyl)hydrazinylidene]methyl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 3-Cyclohexene-1-propanoic acid, 1-[[(2,4-dinitrophenyl)hydrazono]methyl]- (9CI)
MF C16 H18 N4 O6
LC STN Files: BEILSTEIN*
(*File contains numerically searchable property data)

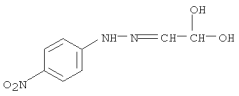


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36758 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 3480-69-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN Methanaminium, 1-[2-(4-hydroxy-3,5-dimethylphenyl)diazenyl]-N-methyl-, inner salt (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Ammonium, [[(p-hydroxyphenyl)azo]methylidyne]methyl-, inner salt (8CI)
MF C10 H11 N3 O



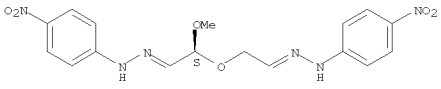
L5 ANSWER 36759 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 3469-70-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Acetaldehyde, 2,2-dihydroxy-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Acetaldehyde, dihydroxy-, (p-nitrophenyl)hydrazone (8CI)
MF C8 H9 N3 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

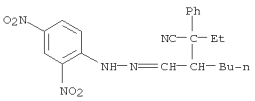
L5 ANSWER 36760 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 3396-87-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Acetaldehyde, methoxy[2-[(4-nitrophenyl)hydrazono]ethoxy]-, (4-nitrophenyl)hydrazone, (S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C17 H18 N6 O6

Absolute stereochemistry.
Double bond geometry unknown.



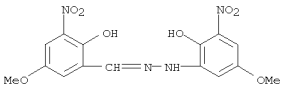
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36761 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 3362-92-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzeneacetonitrile, α-[1-[[2-(2,4-dinitrophenyl)hydrazinylidene]methyl]pentyl]-α-ethyl- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Heptanenitrile, 2-ethyl-3-formyl-2-phenyl-, (2,4-dinitrophenyl)hydrazone (8CI)
MF C22 H25 N5 O4
LC STN Files: BEILSTEIN*
        (*File contains numerically searchable property data)



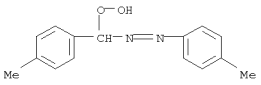
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36762 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 2888-08-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzaldehyde, 2-hydroxy-5-methoxy-3-nitro-,
2-(2-hydroxy-5-methoxy-3-nitrophenyl)hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN m-Anisaldehyde, 6-hydroxy-5-nitro-,
(2-hydroxy-5-methoxy-3-nitrophenyl)hydrazone (8CI)
MF C15 H14 N4 O8



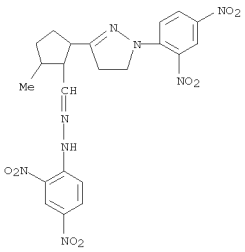
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36763 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 2829-35-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Hydroperoxide, (4-methylphenyl)[(4-methylphenyl)azo]methyl (9CI) (CA
INDEX NAME)
MF C15 H16 N2 O2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

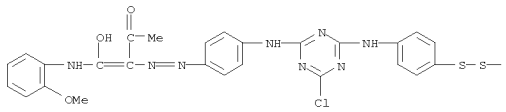
L5 ANSWER 36764 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 2636-95-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN Cyclopentanecarboxaldehyde, 2-[1-(2,4-dinitrophenyl)-4,5-dihydro-1H-
pyrazol-3-yl]-5-methyl-, (2,4-dinitrophenyl)hydrazone,
(1α,2β,5α)- (9CI) (CA INDEX NAME)
MF C22 H22 N8 O8
LC STN Files: BEILSTEIN*
(*File contains numerically searchable property data)



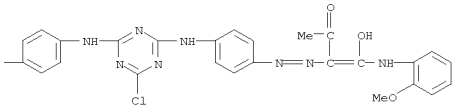
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36765 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 2410-69-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 3-Buten-2-one,
3,3'-[dithiobis[4,1-phenyleneimino(6-chloro-1,3,5-triazine-
4,2-diyl)imino-4,1-phenyleneazo]]bis[4-hydroxy-4-[(2-methoxyphenyl)amino]]-
(9CI) (CA INDEX NAME)
MF C52 H44 Cl2 N16 O6 S2

PAGE 1-A

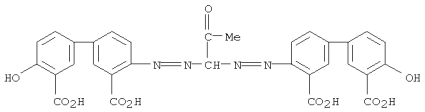


PAGE 1-B



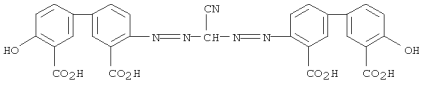
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36766 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 2389-72-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN [1,1'-Biphenyl]-3,3'-dicarboxylic acid,
    4-[2-[1-[2-(3,3'-dicarboxy-4'-hydroxy[1,1'-biphenyl]-4-yl)diazenyl]-2-
    oxopropyl]diazenyl]-4'-hydroxy- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN [1,1'-Biphenyl]-3,3'-dicarboxylic acid,
    4,4''-[(2-oxopropylidene)bis(azo)]bis[4'-hydroxy- (9CI)
MF C31 H22 N4 O11



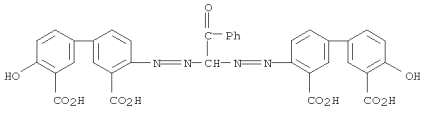
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36767 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 2389-71-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN [1,1'-Biphenyl]-3,3'-dicarboxylic acid,
    4-[2-[cyano[2-(3,3'-dicarboxy-4'-hydroxy[1,1'-biphenyl]-4-
    yl)diazenyl]methyl]diazenyl]-4'-hydroxy- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN [1,1'-Biphenyl]-3,3'-dicarboxylic acid,
    4,4''-[(cyanomethylene)bis(azo)]bis[4'-hydroxy- (9CI)
MF C30 H19 N5 O10



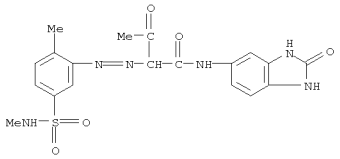
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36768 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 2389-70-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN [1,1'-Biphenyl]-3,3'-dicarboxylic acid,
    4,4''-[(2-oxo-2-phenylethylidene)bis(azo)]bis[4'-hydroxy- (9CI) (CA
INDEX
    NAME)
MF C36 H24 N4 O11



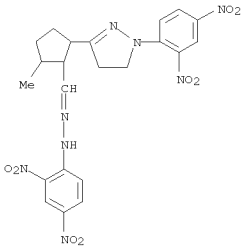
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36769 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 2373-96-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Butanamide, N-(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)-2-[2-[2-methyl-5-
    [(methylamino)sulfonyl]phenyl]diazenyl]-3-oxo- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Butanamide, N-(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)-2-[[2-methyl-5-
    [(methylamino)sulfonyl]phenyl]azo]-3-oxo- (9CI)
MF C19 H20 N6 O5 S



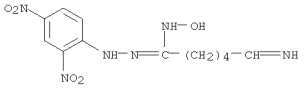
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36770 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 2315-96-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Cyclopentanecarboxaldehyde, 2-[1-(2,4-dinitrophenyl)-2-pyrazolin-3-yl]-5-methyl-, (2,4-dinitrophenyl)hydrazone, stereoisomer (8CI) (CA INDEX NAME)
MF C22 H22 N8 O8
LC STN Files: BEILSTEIN*
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

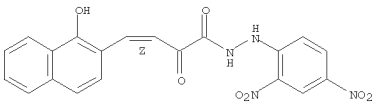
L5 ANSWER 36771 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 2228-78-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN Hexanehydrazonoamide, N-(2,4-dinitrophenyl)-N'-hydroxy-6-imino- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Hexanimidic acid, N-hydroxy-6-imino-, 2-(2,4-dinitrophenyl)hydrazide (9CI)
MF C12 H16 N6 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36772 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 2147-65-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 3-Butenoic acid, 4-(1-hydroxy-2-naphthalenyl)-2-oxo-, 2-(2,4-dinitrophenyl)hydrazide, (Z)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C20 H14 N4 O7

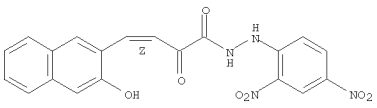
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36773 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 2147-38-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 3-Butenoic acid, 4-(3-hydroxy-2-naphthalenyl)-2-oxo-, 2-(2,4-dinitrophenyl)hydrazide, (Z)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C20 H14 N4 O7

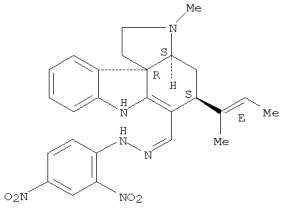
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

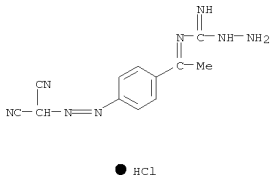
L5 ANSWER 36774 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 2084-39-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Pyrrolo[2,3-d]carbazole-6-carboxaldehyde,
2,3,3a,4,5,7-hexahydro-3-methyl-5-(1-methyl-1-propenyl)-,
(2,4-dinitrophenyl)hydrazone, [3aS-[3aα,5β(E),11bS*]]- (9CI)
(CA INDEX NAME)
FS STEREOSEARCH
MF C26 H28 N6 O4

Absolute stereochemistry.
Double bond geometry as described by E or Z.

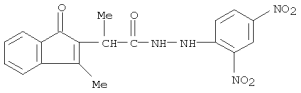


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36775 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 1976-68-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN Hydrazinecarboximidamide,
N-[1-[4-[(dicyanomethyl)azo]phenyl]ethylidene]-,
monohydrochloride (9CI) (CA INDEX NAME)
MF C12 H12 N8 . Cl H
CRN (736862-95-6)

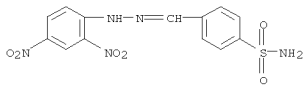


L5 ANSWER 36776 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 1838-36-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Indene-2-acetic acid, α,3-dimethyl-1-oxo-,
2-(2,4-dinitrophenyl)hydrazide (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Indene-2-acetic acid, α,3-dimethyl-1-oxo-,
2-(2,4-dinitrophenyl)hydrazide (8CI)
MF C19 H16 N4 O6



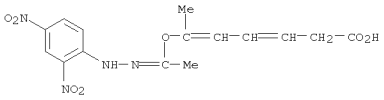
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36777 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 1773-50-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzenesulfonamide, 4-[[2-(2,4-dinitrophenyl)hydrazinylidene]methyl]-
(CA
INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzenesulfonamide, p-formyl-, p-[(2,4-dinitrophenyl)hydrazone] (8CI)
MF C13 H11 N5 O6 S



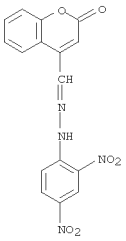
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36778 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 1571-02-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 3,5-Heptadienoic acid,
6-[1-[2-(2,4-dinitrophenyl)hydrazinylidene]ethoxy]-
    (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 3,5-Heptadienoic acid, 6-[1-[(2,4-dinitrophenyl)hydrazono]ethoxy]- (9CI)
MF C15 H16 N4 O7



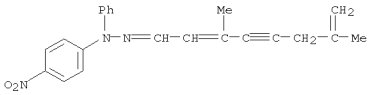
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36779 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 1245-42-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2H-1-Benzopyran-4-carboxaldehyde, 2-oxo-,
    4-[2-(2,4-dinitrophenyl)hydrazone] (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2H-1-Benzopyran-4-carboxaldehyde, 2-oxo-,
4-[(2,4-dinitrophenyl)hydrazone]
    (9CI)
MF C16 H10 N4 O6



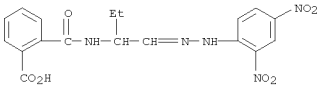
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36780 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 859-08-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2,7-Octadien-4-ynal, 3,7-dimethyl-, 2-(4-nitrophenyl)-2-phenylhydrazone
    (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2,7-Octadien-4-ynal, 3,7-dimethyl-, (4-nitrophenyl)phenylhydrazone (9CI)
MF C22 H21 N3 O2



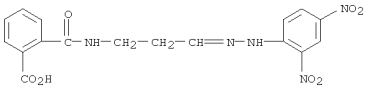
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36781 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 808-67-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzoic acid, 2-[[[1-[[2-(2,4-
    dinitrophenyl)hydrazinylidene]methyl]propyl]amino]carbonyl]- (CA INDEX
    NAME)
OTHER CA INDEX NAMES:
CN Phthalamic acid, N-(1-formylpropyl)-, N-[(2,4-dinitrophenyl)hydrazone]
    (8CI)
MF C18 H17 N5 O7



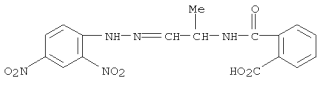
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36782 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 807-70-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzoic acid, 2-[[[3-[2-(2,4-dinitrophenyl)hydrazinylidene]propyl]amino]carbonyl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Phthalamic acid, N-(2-formylethyl)-, N-[(2,4-dinitrophenyl)hydrazone] (8CI)
MF C17 H15 N5 O7



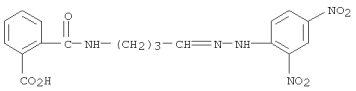
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36783 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 807-69-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzoic acid, 2-[[[2-[2-(2,4-dinitrophenyl)hydrazinylidene]-1-methylethyl]amino]carbonyl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Phthalamic acid, N-(1-formylethyl)-, N-[(2,4-dinitrophenyl)hydrazone] (8CI)
MF C17 H15 N5 O7



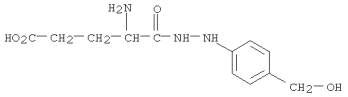
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36784 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 750-12-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzoic acid, 2-[[[4-[2-(2,4-dinitrophenyl)hydrazinylidene]butyl]amino]carbonyl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Phalamic acid, N-(4-oxobutyl)-, 4-[(2,4-dinitrophenyl)hydrazone] (8CI)
MF C18 H17 N5 O7



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

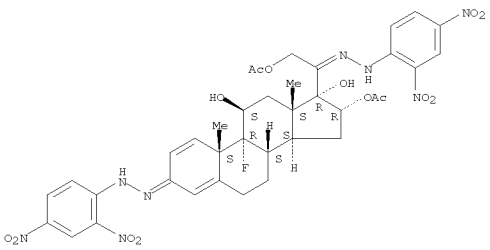
L5 ANSWER 36785 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 645-57-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Glutamic acid, 1-[2-(α-hydroxy-p-tolyl)hydrazide] (8CI) (CA INDEX NAME)
MF C12 H17 N3 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

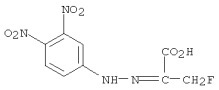
L5 ANSWER 36786 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 508-94-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN Pregna-1,4-diene-3,20-dione, 16,21-bis(acetyloxy)-9-fluoro-11,17-dihydroxy-, bis[(2,4-dinitrophenyl)hydrazone], (11β,16α)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C37 H39 F N8 O14

Absolute stereochemistry.
Double bond geometry unknown.



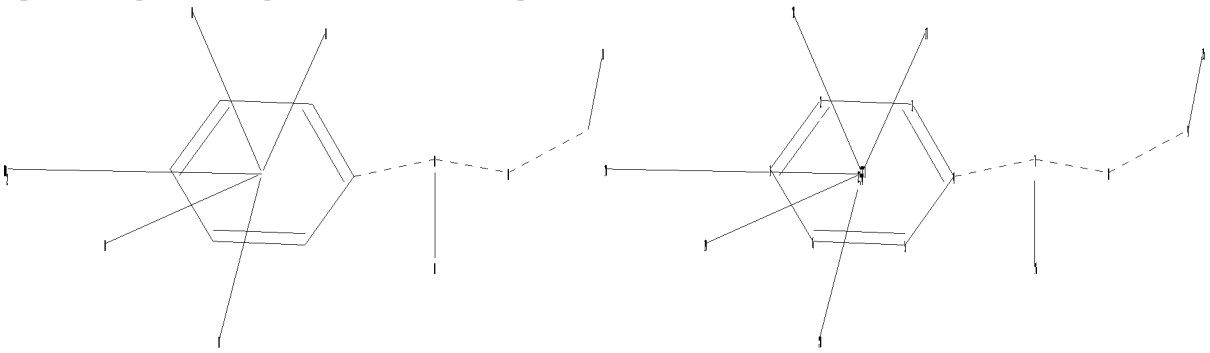
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 36787 OF 36787 REGISTRY COPYRIGHT 2009 ACS on STN
RN 490-29-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Propanoic acid, 2-[2-(3,4-dinitrophenyl)hydrazinylidene]-3-fluoro- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Propanoic acid, 2-[2-(3,4-dinitrophenyl)hydrazono]-3-fluoro- (9CI)
MF C9 H7 F N4 O6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

=>
Uploading C:\Program Files\Stnexp\Queries\QUERIES\10551414.str



chain nodes :
7 8 9 10 15 16 17 18 19 20
ring nodes :
1 2 3 4 5 6
chain bonds :
4-7 7-8 7-16 8-9 9-15
ring bonds :
1-6 1-2 2-3 3-4 4-5 5-6
exact/norm bonds :
4-7 7-8 8-9
exact bonds :
7-16 9-15
normalized bonds :
1-6 1-2 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

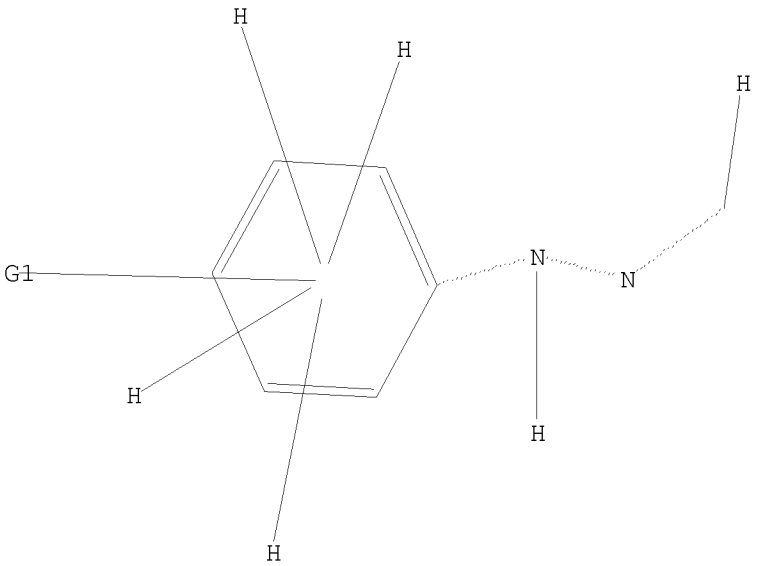
G1:C,O,N,X,Cy

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 12:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS
21:CLASS 22:CLASS 23:CLASS 24:CLASS
Element Count :
Node 10: Limited
    C,C3
    O,O1
    N,N1
    S,S0

L6   STRUCTURE UPLOADED

=> d
L6 HAS NO ANSWERS

L6 STR



G1 C,O,N,X,Cy

Structure attributes must be viewed using STN Express query preparation.

```
=> s l6
SAMPLE SEARCH INITIATED 07:47:03 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    33624 TO ITERATE

  5.9% PROCESSED     2000 ITERATIONS                                50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       661513 TO   683447
PROJECTED ANSWERS:           31812 TO    36780

L7           50 SEA SSS SAM L6

=> d his

     (FILE 'HOME' ENTERED AT 07:39:40 ON 20 APR 2009)

     FILE 'REGISTRY' ENTERED AT 07:41:03 ON 20 APR 2009
L1               STRUCTURE UPLOADED
L2            50 S L1
L3        141072 S L1 FULL
L4        104285 S L3 AND CAPLUS/LC
L5         36787 S L3 NOT L4
L6               STRUCTURE UPLOADED
L7            50 S L6
```

```
=> s l6 subset=l3 full
FULL SUBSET SEARCH INITIATED 07:47:16 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED -   141072 TO ITERATE

100.0% PROCESSED   141072 ITERATIONS                          33600 ANSWERS
SEARCH TIME: 00.00.08

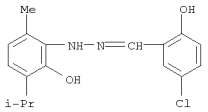
L8        33600 SEA SUB=L3 SSS FUL L6

=> s l8 and caplus/lc
      65278505 CAPLUS/LC
L9       17321 L8 AND CAPLUS/LC

=> s l8 not l9
L10      16279 L8 NOT L9

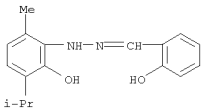
=> d l10 16250-16279
```

L10 ANSWER 16250 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN   7145-57-5 REGISTRY
ED   Entered STN: 16 Nov 1984
CN   Benzaldehyde, 5-chloro-2-hydroxy-,
     2-[2-hydroxy-6-methyl-3-(1-methylethyl)phenyl]hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Salicylaldehyde, 5-chloro-, (3-hydroxycarvacryl)hydrazone (8CI)
OTHER NAMES:
CN   NSC 74425
MF   C17 H19 Cl N2 O2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

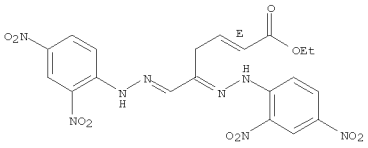
L10 ANSWER 16251 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN   7145-56-4 REGISTRY
ED   Entered STN: 16 Nov 1984
CN   Benzaldehyde, 2-hydroxy-, 2-[2-hydroxy-6-methyl-3-(1-
     methylethyl)phenyl]hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Salicylaldehyde, (3-hydroxycarvacryl)hydrazone (8CI)
OTHER NAMES:
CN   NSC 74424
MF   C17 H20 N2 O2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

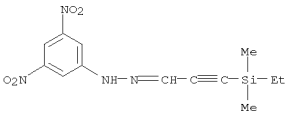
L10 ANSWER 16252 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN   7073-29-2 REGISTRY
ED   Entered STN: 16 Nov 1984
CN   2-Pentenoic acid, 5-formyl-5-oxo-, ethyl ester,
     bis[(2,4-dinitrophenyl)hydrazone], (?,?,E)- (8CI) (CA INDEX NAME)
FS   STEREOSEARCH
MF   C20 H18 N8 O10

Double bond geometry as described by E or Z.



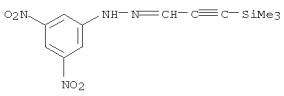
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 ANSWER 16253 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN   6999-18-4 REGISTRY
ED   Entered STN: 16 Nov 1984
CN   2-Propynal, 3-(ethyldimethylsilyl)-, 2-(3,5-dinitrophenyl)hydrazone (CA
     INDEX NAME)
OTHER CA INDEX NAMES:
CN   2-Propynal, 3-(ethyldimethylsilyl)-, (3,5-dinitrophenyl)hydrazone (9CI)
MF   C13 H16 N4 O4 Si
LC   STN Files: BEILSTEIN*
          (*File contains numerically searchable property data)



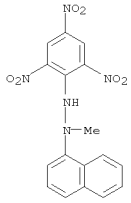
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 ANSWER 16254 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 6999-15-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2-Propynal, 3-(trimethylsilyl)-, 2-(3,5-dinitrophenyl)hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Propynal, 3-(trimethylsilyl)-, (3,5-dinitrophenyl)hydrazone (9CI)
MF C12 H14 N4 O4 Si
LC STN Files: BEILSTEIN*
(*File contains numerically searchable property data)



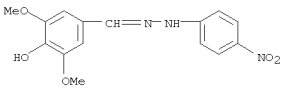
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 ANSWER 16255 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 6295-90-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN Hydrazine, 1-methyl-1-(1-naphthalenyl)-2-(2,4,6-trinitrophenyl)- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Hydrazine, 1-methyl-1-(1-naphthyl)-2-picryl- (8CI)
OTHER NAMES:
CN NSC 49545
MF C17 H13 N5 O6



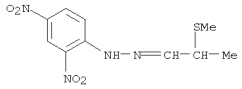
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 ANSWER 16256 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 6024-58-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzaldehyde, 4-hydroxy-3,5-dimethoxy-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzaldehyde, 4-hydroxy-3,5-dimethoxy-, (4-nitrophenyl)hydrazone (9CI)
CN Benzaldehyde, 4-hydroxy-3,5-dimethoxy-, (p-nitrophenyl)hydrazone (8CI)
OTHER NAMES:
CN Syringaldehyde p-nitrophenylhydrazone
MF C15 H15 N3 O5
LC STN Files: BEILSTEIN*, CHEMCATS
(*File contains numerically searchable property data)



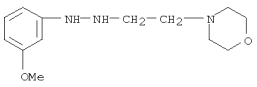
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 ANSWER 16257 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 5440-68-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN Propanal, 2-(methylthio)-, 2-(2,4-dinitrophenyl)hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Propanal, 2-(methylthio)-, (2,4-dinitrophenyl)hydrazone (9CI)
OTHER NAMES:
CN NSC 20702
MF C10 H12 N4 O4 S
LC STN Files: BEILSTEIN*
(*File contains numerically searchable property data)



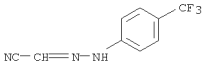
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 ANSWER 16258 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 5172-85-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Morpholine, 4-[2-[2-(3-methoxyphenyl)hydrazinyl]ethyl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Morpholine, 4-[2-[2-(3-methoxyphenyl)hydrazino]ethyl]- (9CI)
MF C13 H21 N3 O2



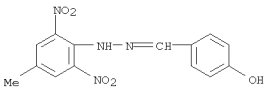
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 ANSWER 16259 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 4844-03-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN Acetonitrile, 2-[2-[4-(trifluoromethyl)phenyl]hydrazinylidene]- (CA INDEX
NAME)
OTHER CA INDEX NAMES:
CN Acetonitrile, [[4-(trifluoromethyl)phenyl]hydrazono]- (9CI)
CN Glyoxol nitrile, (α,α,α-trifluoro-p-tolyl)hydrazone (8CI)
MF C9 H6 F3 N3



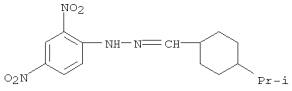
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 ANSWER 16260 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 4842-31-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzaldehyde, 4-hydroxy-, 2-(4-methyl-2,6-dinitrophenyl)hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzaldehyde, p-hydroxy-, (2,6-dinitro-p-tolyl)hydrazone (8CI)
MF C14 H12 N4 O5
LC STN Files: BEILSTEIN*
(*File contains numerically searchable property data)



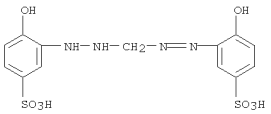
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 ANSWER 16261 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 4677-89-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Cyclohexanecarboxaldehyde, 4-(1-methylethyl)-, 2-(2,4-dinitrophenyl)hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Cyclohexanecarboxaldehyde, 4-(1-methylethyl)-, (2,4-dinitrophenyl)hydrazone (9CI)
MF C16 H22 N4 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 ANSWER 16262 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 4470-98-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzenesulfonic acid, 4-hydroxy-3-[2-[[(2-hydroxy-5-sulfophenyl)azo]methyl]hydrazino]- (8CI) (CA INDEX NAME)
MF C13 H14 N4 O8 S2

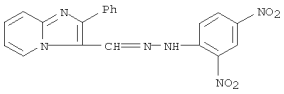


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 ANSWER 16263 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 4045-01-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN Imidazo[1,2-a]pyridine-3-carboxaldehyde, 2-phenyl-, 2-(2,4-dinitrophenyl)hydrazone, sulfate (1:1) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Imidazo[1,2-a]pyridine-3-carboxaldehyde, 2-phenyl-, (2,4-dinitrophenyl)hydrazone, sulfate (1:1) (9CI)
MF C20 H14 N6 O4 . H2 O4 S

CM 1

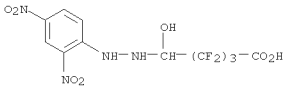
CRN 47654-58-0
CMF C20 H14 N6 O4



CM 2

CRN 7664-93-9
CMF H2 O4 S

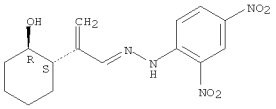
L10 ANSWER 16264 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 3780-36-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN Pentanoic acid, 5-[2-(2,4-dinitrophenyl)hydrazinyl]-2,2,3,3,4,4-hexafluoro-5-hydroxy- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Pentanoic acid, 5-[2-(2,4-dinitrophenyl)hydrazino]-2,2,3,3,4,4-hexafluoro-5-hydroxy- (9CI)
MF C11 H8 F6 N4 O7



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

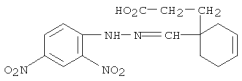
L10 ANSWER 16265 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 3727-51-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Cyclohexaneacetaldehyde, 2-hydroxy-α-methylene-, (2,4-dinitrophenyl)hydrazone, trans- (8CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C15 H18 N4 O5
LC STN Files: BEILSTEIN*
(*File contains numerically searchable property data)

Relative stereochemistry.
Double bond geometry unknown.



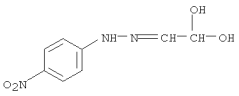
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 ANSWER 16266 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 3621-56-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 3-Cyclohexene-1-propanoic acid, 1-[[2-(2,4-dinitrophenyl)hydrazinylidene]methyl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 3-Cyclohexene-1-propanoic acid, 1-[[(2,4-dinitrophenyl)hydrazono]methyl]- (9CI)
MF C16 H18 N4 O6
LC STN Files: BEILSTEIN*
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

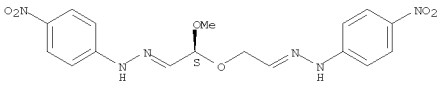
L10 ANSWER 16267 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 3469-70-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Acetaldehyde, 2,2-dihydroxy-, 2-(4-nitrophenyl)hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Acetaldehyde, dihydroxy-, (p-nitrophenyl)hydrazone (8CI)
MF C8 H9 N3 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

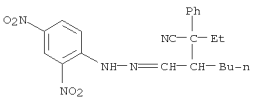
L10 ANSWER 16268 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 3396-87-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Acetaldehyde, methoxy[2-[(4-nitrophenyl)hydrazono]ethoxy]-, (4-nitrophenyl)hydrazone, (S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C17 H18 N6 O6

Absolute stereochemistry.
Double bond geometry unknown.



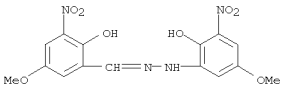
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 ANSWER 16269 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 3362-92-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzeneacetonitrile, α-[1-[[2-(2,4-dinitrophenyl)hydrazinylidene]methyl]pentyl]-α-ethyl- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Heptanenitrile, 2-ethyl-3-formyl-2-phenyl-, (2,4-dinitrophenyl)hydrazone (8CI)
MF C22 H25 N5 O4
LC STN Files: BEILSTEIN*
(*File contains numerically searchable property data)



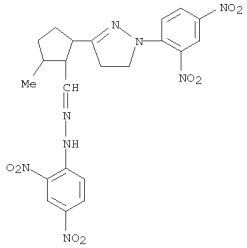
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 ANSWER 16270 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 2888-08-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzaldehyde, 2-hydroxy-5-methoxy-3-nitro-, 2-(2-hydroxy-5-methoxy-3-nitrophenyl)hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN m-Anisaldehyde, 6-hydroxy-5-nitro-, (2-hydroxy-5-methoxy-3-nitrophenyl)hydrazone (8CI)
MF C15 H14 N4 O8



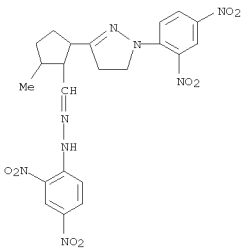
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 ANSWER 16271 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 2636-95-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN Cyclopentanecarboxaldehyde, 2-[1-(2,4-dinitrophenyl)-4,5-dihydro-1H-pyrazol-3-yl]-5-methyl-, (2,4-dinitrophenyl)hydrazone, (1α,2β,5α)- (9CI) (CA INDEX NAME)
MF C22 H22 N8 O8
LC STN Files: BEILSTEIN*
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

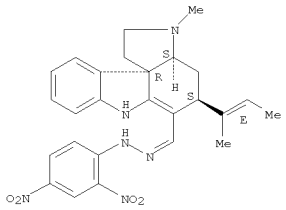
L10 ANSWER 16272 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 2315-96-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Cyclopentanecarboxaldehyde, 2-[1-(2,4-dinitrophenyl)-2-pyrazolin-3-yl]-5-methyl-, (2,4-dinitrophenyl)hydrazone, stereoisomer (8CI) (CA INDEX NAME)
MF C22 H22 N8 O8
LC STN Files: BEILSTEIN*
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

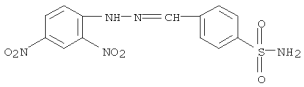
L10 ANSWER 16273 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 2084-39-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Pyrrolo[2,3-d]carbazole-6-carboxaldehyde, 2,3,3a,4,5,7-hexahydro-3-methyl-5-(1-methyl-1-propenyl)-, (2,4-dinitrophenyl)hydrazone, [3aS-[3aα,5β(E),11bS*]]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C26 H28 N6 O4

Absolute stereochemistry.
Double bond geometry as described by E or Z.



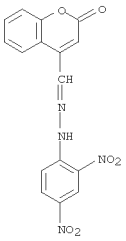
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 ANSWER 16274 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 1773-50-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzenesulfonamide, 4-[[2-(2,4-dinitrophenyl)hydrazinylidene]methyl]-(CA
INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzenesulfonamide, p-formyl-, p-[(2,4-dinitrophenyl)hydrazone] (8CI)
MF C13 H11 N5 O6 S



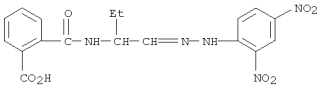
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 ANSWER 16275 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 1245-42-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2H-1-Benzopyran-4-carboxaldehyde, 2-oxo-,
4-[2-(2,4-dinitrophenyl)hydrazone] (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2H-1-Benzopyran-4-carboxaldehyde, 2-oxo-,
4-[(2,4-dinitrophenyl)hydrazone]
(9CI)
MF C16 H10 N4 O6



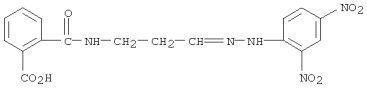
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 ANSWER 16276 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 808-67-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzoic acid, 2-[[[1-[[2-(2,4-
dinitrophenyl)hydrazinylidene]methyl]propyl]amino]carbonyl]- (CA INDEX
NAME)
OTHER CA INDEX NAMES:
CN Phthalamic acid, N-(1-formylpropyl)-, N-[(2,4-dinitrophenyl)hydrazone]
(8CI)
MF C18 H17 N5 O7



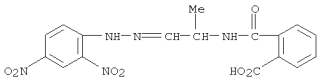
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 ANSWER 16277 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 807-70-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzoic acid, 2-[[[3-[2-(2,4-
dinitrophenyl)hydrazinylidene]propyl]amino]carbonyl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Phthalamic acid, N-(2-formylethyl)-, N-[(2,4-dinitrophenyl)hydrazone]
(8CI)
MF C17 H15 N5 O7



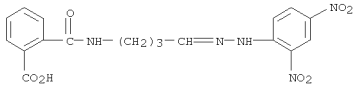
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 ANSWER 16278 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 807-69-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzoic acid, 2-[[[2-[2-(2,4-dinitrophenyl)hydrazinylidene]-1-methylethyl]amino]carbonyl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Phthalamic acid, N-(1-formylethyl)-, N-[(2,4-dinitrophenyl)hydrazone] (8CI)
MF C17 H15 N5 O7



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 ANSWER 16279 OF 16279 REGISTRY COPYRIGHT 2009 ACS on STN
RN 750-12-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzoic acid, 2-[[[4-[2-(2,4-dinitrophenyl)hydrazinylidene]butyl]amino]carbonyl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Phalamic acid, N-(4-oxobutyl)-, 4-[(2,4-dinitrophenyl)hydrazone] (8CI)
MF C18 H17 N5 O7



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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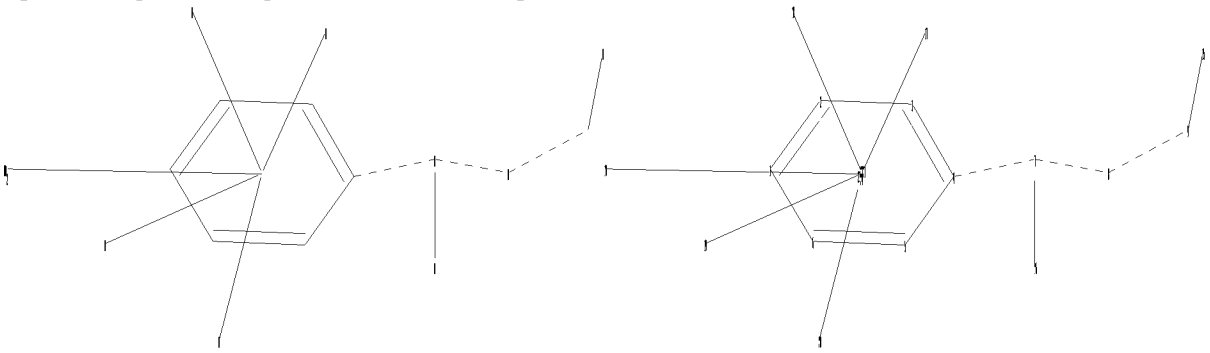


chain nodes :
7 8 9 10 15 16 17 18 19 20
ring nodes :
1 2 3 4 5 6
chain bonds :
4-7 7-8 7-16 8-9 9-15
ring bonds :
1-6 1-2 2-3 3-4 4-5 5-6
exact/norm bonds :
4-7 7-8 8-9
exact bonds :
7-16 9-15
normalized bonds :
1-6 1-2 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

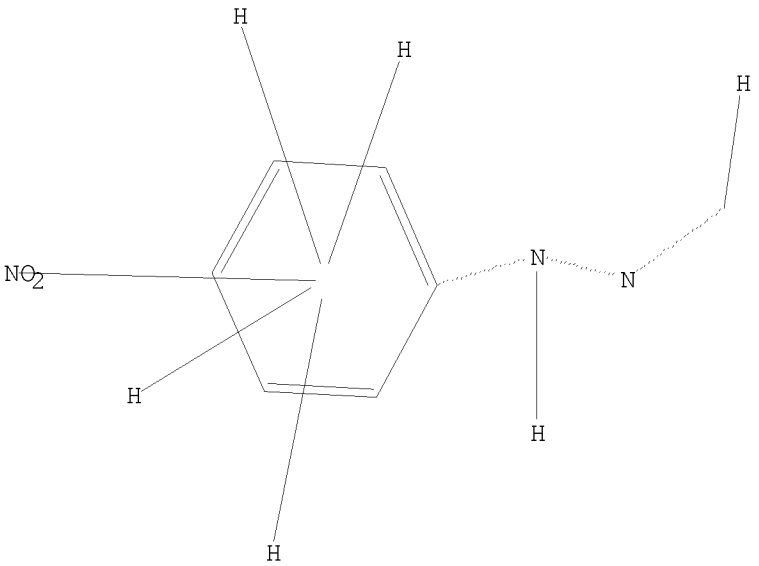
G1:C,O,N,X,Cy

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 12:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS
21:CLASS 22:CLASS 23:CLASS 24:CLASS
Element Count :
Node 10: Limited
    C,C3
    O,O1
    N,N1
    S,S0

L11   STRUCTURE UPLOADED

=> d
L11 HAS NO ANSWERS

L11 STR



G1 C,O,N,X,Cy

Structure attributes must be viewed using STN Express query preparation.

=> d his

(FILE 'HOME' ENTERED AT 07:39:40 ON 20 APR 2009)

FILE 'REGISTRY' ENTERED AT 07:41:03 ON 20 APR 2009

```
L1              STRUCTURE UPLOADED
L2           50 S L1
L3       141072 S L1 FULL
L4       104285 S L3 AND CAPLUS/LC
L5        36787 S L3 NOT L4
L6              STRUCTURE UPLOADED
L7           50 S L6
L8        33600 S L6 FULL SUB=L3
L9        17321 S L8 AND CAPLUS/LC
L10       16279 S L8 NOT L9
L11             STRUCTURE UPLOADED
```

=> s l11 subset=l8 full
FULL SUBSET SEARCH INITIATED 07:49:48 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED - 20337 TO ITERATE

100.0% PROCESSED 20337 ITERATIONS 19319 ANSWERS
SEARCH TIME: 00.00.01

L12 19319 SEA SUB=L8 SSS FUL L11

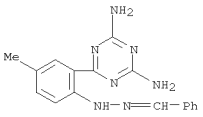
=> s l8 not l12
L13 14281 L8 NOT L12

```
=> s l13 and caplus/lc
      65278505 CAPLUS/LC
L14        6017 L13 AND CAPLUS/LC

=> s l13 not l14
L15        8264 L13 NOT L14

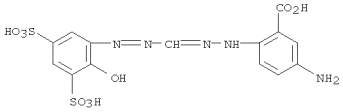
=> d l15 8240-8264
```

L15 ANSWER 8240 OF 8264 REGISTRY COPYRIGHT 2009 ACS on STN
RN 30101-82-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzaldehyde, 2-[2-(4,6-diamino-1,3,5-triazin-2-yl)-4-methylphenyl]hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzaldehyde, [2-(4,6-diamino-1,3,5-triazin-2-yl)-4-methylphenyl]hydrazone (9CI)
MF C17 H17 N7
LC STN Files: BEILSTEIN*
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 ANSWER 8241 OF 8264 REGISTRY COPYRIGHT 2009 ACS on STN
RN 30063-28-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzoic acid, 5-amino-2-[2-[[2-(2-hydroxy-3,5-disulfophenyl)diazenyl]methylene]hydrazinyl]-, sodium salt (1:2) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzoic acid, 5-amino-2-[1-(2-hydroxy-3,5-disulfophenyl)-5-formazano]-, disodium salt
CN Benzoic acid, 5-amino-2-[[[(2-hydroxy-3,5-disulfophenyl)azo]methylene]hydrazino]-, disodium salt (9CI)
MF C14 H13 N5 O9 S2 . 2 Na
CRN (765836-98-4)

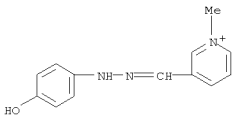


● 2 Na

L15 ANSWER 8242 OF 8264 REGISTRY COPYRIGHT 2009 ACS on STN
RN 28973-45-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN Pyridinium, 3-[[2-(4-hydroxyphenyl)hydrazinylidene]methyl]-1-methyl-, methanesulfonate (1:1) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Pyridinium, 3-formyl-1-methyl-, methanesulfonate, (p-hydroxyphenyl)hydrazone (8CI)
MF C13 H14 N3 O . C H3 O3 S

CM 1

CRN 46838-32-8
CMF C13 H14 N3 O

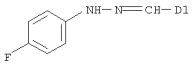


CM 2

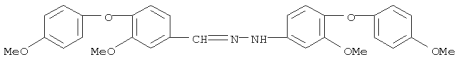
CRN 16053-58-0
CMF C H3 O3 S

L15 ANSWER 8243 OF 8264 REGISTRY COPYRIGHT 2009 ACS on STN
RN 27156-58-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN Anisaldehyde, (p-fluorophenyl)hydrazone (8CI) (CA INDEX NAME)
MF C14 H13 F N2 O
CI IDS

D1—O—Me

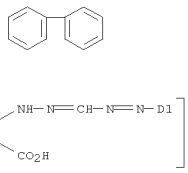


L15 ANSWER 8244 OF 8264 REGISTRY COPYRIGHT 2009 ACS on STN
RN 27092-26-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzaldehyde, 3-methoxy-4-(4-methoxyphenoxy)-,
2-[3-methoxy-4-(4-methoxyphenoxy)phenyl]hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN m-Anisaldehyde, 4-(p-methoxyphenoxy)-,
[3-methoxy-4-(p-methoxyphenoxy)phenyl]hydrazone (8CI)
MF C29 H28 N2 O6



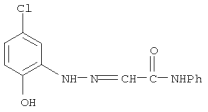
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 ANSWER 8245 OF 8264 REGISTRY COPYRIGHT 2009 ACS on STN
RN 26426-48-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzoic acid, 2,2'-(biphenylylenedi-1,5-formazandiyl)di- (8CI) (CA INDEX NAME)
OTHER NAMES:
CN Formazan, 1,1'-(biphenylylene)bis[5-(o-carboxyphenyl)-
MF C28 H22 N8 O4
CI IDS



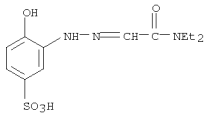
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 ANSWER 8246 OF 8264 REGISTRY COPYRIGHT 2009 ACS on STN
RN 25926-26-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN Acetamide, 2-[2-(5-chloro-2-hydroxyphenyl)hydrazinylidene]-N-phenyl- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glyoxylanilide, 2-[(5-chloro-2-hydroxyphenyl)hydrazone] (8CI)
MF C14 H12 Cl N3 O2
LC STN Files: BEILSTEIN*
(*File contains numerically searchable property data)



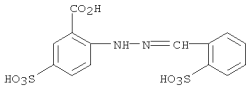
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 ANSWER 8247 OF 8264 REGISTRY COPYRIGHT 2009 ACS on STN
RN 25926-25-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzenesulfonic acid,
3-[2-[2-(diethylamino)-2-oxoethylidene]hydrazinyl]-4-hydroxy- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzenesulfonic acid, 3-[2-[(diethylcarbamoyl)methylene]hydrazino]-4-hydroxy- (8CI)
MF C12 H17 N3 O5 S



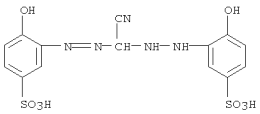
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 ANSWER 8248 OF 8264 REGISTRY COPYRIGHT 2009 ACS on STN
RN 25725-73-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzoic acid, 5-sulfo-2-[2-[(2-sulfophenyl)methylene]hydrazinyl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzoic acid, 5-sulfo-2-[[(2-sulfophenyl)methylene]hydrazino]- (9CI)
MF C14 H12 N2 O8 S2
LC STN Files: SPECINFO



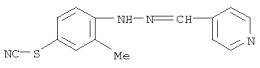
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 ANSWER 8249 OF 8264 REGISTRY COPYRIGHT 2009 ACS on STN
RN 15460-69-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzenesulfonic acid, 3-[2-[cyano[(2-hydroxy-5-sulfophenyl)azo]methyl]hydrazino]-4-hydroxy- (8CI) (CA INDEX NAME)
MF C14 H13 N5 O8 S2



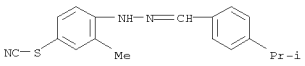
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 ANSWER 8250 OF 8264 REGISTRY COPYRIGHT 2009 ACS on STN
RN 14889-18-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Thiocyanic acid, 3-methyl-4-[2-(4-pyridinylmethylene)hydrazinyl]phenyl ester (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Thiocyanic acid, 4-[(4-pyridylmethylene)hydrazino]-m-tolyl ester (8CI)
MF C14 H12 N4 S
LC STN Files: BEILSTEIN*
(*File contains numerically searchable property data)



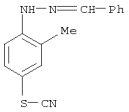
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 ANSWER 8251 OF 8264 REGISTRY COPYRIGHT 2009 ACS on STN
RN 14889-17-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Thiocyanic acid, 3-methyl-4-[2-[[4-(1-methylethyl)phenyl]methylene]hydrazinyl]phenyl ester (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Thiocyanic acid, 4-[(p-isopropylbenzylidene)hydrazino]-m-tolyl ester (8CI)
MF C18 H19 N3 S
LC STN Files: BEILSTEIN*
(*File contains numerically searchable property data)



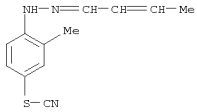
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 ANSWER 8252 OF 8264 REGISTRY COPYRIGHT 2009 ACS on STN
RN 14889-16-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Thiocyanic acid, 3-methyl-4-[2-(phenylmethylene)hydrazinyl]phenyl ester (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Thiocyanic acid, 4-(benzylidenehydrazino)-m-tolyl ester (8CI)
MF C15 H13 N3 S
LC STN Files: BEILSTEIN*
(*File contains numerically searchable property data)



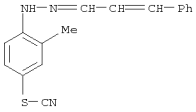
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 ANSWER 8253 OF 8264 REGISTRY COPYRIGHT 2009 ACS on STN
RN 14889-15-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN Thiocyanic acid, 4-[2-(2-buten-1-ylidene)hydrazinyl]-3-methylphenyl ester (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Thiocyanic acid, 4-(2-butenylidenehydrazino)-m-tolyl ester (8CI)
MF C12 H13 N3 S
LC STN Files: BEILSTEIN*
(*File contains numerically searchable property data)



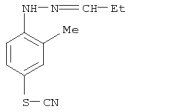
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 ANSWER 8254 OF 8264 REGISTRY COPYRIGHT 2009 ACS on STN
RN 14889-14-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN Thiocyanic acid, 3-methyl-4-[2-(3-phenyl-2-propen-1-ylidene)hydrazinyl]phenyl ester (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Thiocyanic acid, 4-(cinnamylidenehydrazino)-m-tolyl ester (8CI)
MF C17 H15 N3 S
LC STN Files: BEILSTEIN*
(*File contains numerically searchable property data)



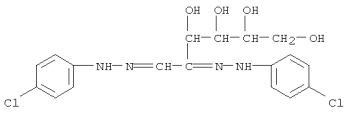
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 ANSWER 8255 OF 8264 REGISTRY COPYRIGHT 2009 ACS on STN
RN 14889-13-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN Thiocyanic acid, 3-methyl-4-(2-propylidenehydrazinyl)phenyl ester (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Thiocyanic acid, 4-(propylidenehydrazino)-m-tolyl ester (8CI)
MF C11 H13 N3 S
LC STN Files: BEILSTEIN*
(*File contains numerically searchable property data)



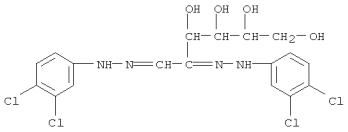
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 ANSWER 8256 OF 8264 REGISTRY COPYRIGHT 2009 ACS on STN
RN 14581-19-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Hexos-2-ulose, bis[(4-chlorophenyl)hydrazone] (9CI) (CA INDEX NAME)
MF C18 H20 Cl2 N4 O4
LC STN Files: BEILSTEIN*
(*File contains numerically searchable property data)



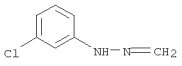
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 ANSWER 8257 OF 8264 REGISTRY COPYRIGHT 2009 ACS on STN
RN 14581-18-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN Hexos-2-ulose, bis[(3,4-dichlorophenyl)hydrazone] (9CI) (CA INDEX NAME)
MF C18 H18 Cl4 N4 O4
LC STN Files: BEILSTEIN*
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

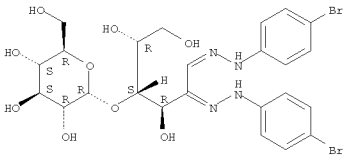
L15 ANSWER 8258 OF 8264 REGISTRY COPYRIGHT 2009 ACS on STN
RN 14046-96-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Formaldehyde, 2-(3-chlorophenyl)hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Formaldehyde, (3-chlorophenyl)hydrazone (9CI)
CN Formaldehyde, (m-chlorophenyl)hydrazone (8CI)
MF C7 H7 Cl N2
LC STN Files: MEDLINE, TOXCENTER



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

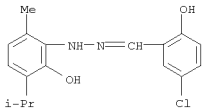
L15 ANSWER 8259 OF 8264 REGISTRY COPYRIGHT 2009 ACS on STN
RN 7599-20-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN Maltose, bis[(p-bromophenyl)hydrazone] (8CI) (CA INDEX NAME)
OTHER NAMES:
CN NSC 405954
FS STEREOSEARCH
MF C24 H30 Br2 N4 O9
LC STN Files: BEILSTEIN*
(*File contains numerically searchable property data)

Absolute stereochemistry.
Double bond geometry unknown.



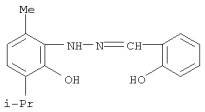
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 ANSWER 8260 OF 8264 REGISTRY COPYRIGHT 2009 ACS on STN
RN 7145-57-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzaldehyde, 5-chloro-2-hydroxy-,
2-[2-hydroxy-6-methyl-3-(1-methylethyl)phenyl]hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Salicylaldehyde, 5-chloro-, (3-hydroxycarvacryl)hydrazone (8CI)
OTHER NAMES:
CN NSC 74425
MF C17 H19 Cl N2 O2



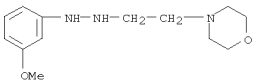
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 ANSWER 8261 OF 8264 REGISTRY COPYRIGHT 2009 ACS on STN
RN 7145-56-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzaldehyde, 2-hydroxy-, 2-[2-hydroxy-6-methyl-3-(1-
methylethyl)phenyl]hydrazone (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Salicylaldehyde, (3-hydroxycarvacryl)hydrazone (8CI)
OTHER NAMES:
CN NSC 74424
MF C17 H20 N2 O2



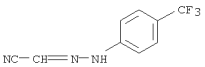
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 ANSWER 8262 OF 8264 REGISTRY COPYRIGHT 2009 ACS on STN
RN 5172-85-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Morpholine, 4-[2-[2-(3-methoxyphenyl)hydrazinyl]ethyl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Morpholine, 4-[2-[2-(3-methoxyphenyl)hydrazino]ethyl]- (9CI)
MF C13 H21 N3 O2



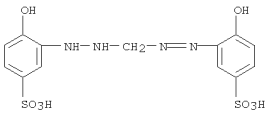
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 ANSWER 8263 OF 8264 REGISTRY COPYRIGHT 2009 ACS on STN
RN 4844-03-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN Acetonitrile, 2-[2-[4-(trifluoromethyl)phenyl]hydrazinylidene]- (CA INDEX
NAME)
OTHER CA INDEX NAMES:
CN Acetonitrile, [[4-(trifluoromethyl)phenyl]hydrazono]- (9CI)
CN Glyoxol nitrile, (α,α,α-trifluoro-p-tolyl)hydrazone
(8CI)
MF C9 H6 F3 N3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 ANSWER 8264 OF 8264 REGISTRY COPYRIGHT 2009 ACS on STN
RN 4470-98-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzenesulfonic acid, 4-hydroxy-3-[2-[[(2-hydroxy-5-sulfophenyl)azo]methyl]hydrazino]- (8CI) (CA INDEX NAME)
MF C13 H14 N4 O8 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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=> fil caplus
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                       490.66     491.10

FILE 'CAPLUS' ENTERED AT 07:54:00 ON 20 APR 2009
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L2          50 S L1
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L4      104285 S L3 AND CAPLUS/LC
L5       36787 S L3 NOT L4
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L7          50 S L6
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L10      16279 S L8 NOT L9
L11            STRUCTURE UPLOADED
L12      19319 S L11 FULL SUB=L8
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L16       3068 L14

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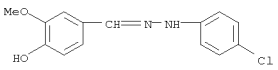
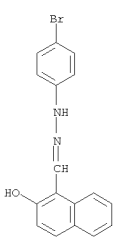
L16 ANSWER 3040 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1913:24346 CAPLUS
DOCUMENT NUMBER: 7:24346
ORIGINAL REFERENCE NO.: 7:3495b-e
TITLE: The Influence of Halogens on Phototropy in Hydrazones.
II
AUTHOR(S): Graziani, Ferdinando
CORPORATE SOURCE: Turin
SOURCE: Atti della Accademia Nazionale dei Lincei, Classe di Scienze Fisiche, Matematiche e Naturali, Rendiconti (1913), 22(I), 623-9
CODEN: AANLAW; ISSN: 0001-4435
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. C. A., 5, 277. Hydrazones were prepared from the 3 ClC6H4NHNH2 and tested as to their phototropic properties. None of the o-compds., all of the m-compds. and 4 (will be designated) of the p-compds. are phototropic.
o-Chlorophenylhydrazones: Benzaldehyde, minute needles, m. 73°. Anisaldehyde, crystalline powder, m. 67°. Cuminaldehyde, slightly yellow needles, m. 67°. Cinnamaldehyde, flat S-yellow needles, m. 99°. Piperonaldehyde, slightly yellow flat needles, m. 96°. Salicylaldehyde. Benzaldehyde. m-Chlorophenylhydrazones: Anisaldehyde, flat needles, m. 135°. Cuminaldehyde, flat needles, m. 131°. Cinnamaldehyde, yellow crystalline powder, m. 120°. Piperonaldehyde, minute needles, m. 95°. Salicylaldehyde. p-Tolualdehyde, crystalline powder, m. 112°. Benzaldehyde. m. 132° (not 127°, Hewitt, J. Chemical Society, 63, 873), phototropic. p-Chlorophyenylhydrazones: Anisaldehyde, leaflets, m. 150°, not phototropic. Cuminaldehyde, slightly yellow needles, m. 131°, very phototropic. Cinnamaldehyde, yellow-green needles, m. 136°, phototropic. Piperonaldehyde, slightly yellow leaflets, m. 143°, not phototropic. Salicylaldehyde, m. 173° (not 169-70°, Auwers, C. A., 3, 1987), not phototropic. p-Tolualdehyde, slightly yellow needles, slightly phototropic. Vanillin, slightly yellow needles, m. 135°, not phototropic.
IT 386272-01-1P, Vanillin, p-chlorophenylhydrazone
RL: PREP (Preparation)
(preparation of)
RN 386272-01-1 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-methoxy-, 2-(4-chlorophenyl)hydrazone (CA INDEX NAME)



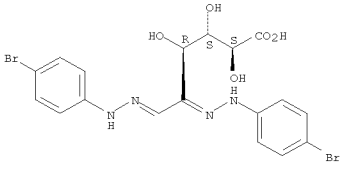
L16 ANSWER 3041 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1913:14132 CAPLUS
DOCUMENT NUMBER: 7:14132
ORIGINAL REFERENCE NO.: 7:2042d-i,2043a-e
TITLE: Hydrazones of Hydroxy-aldehydes and Ketones. Alkali-insoluble Naphthols
AUTHOR(S): Torrey, H. A.; Brewster, C. M.
CORPORATE SOURCE: Harvard Univ.
SOURCE: Journal of the American Chemical Society (1913), 35, 426-44
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. C. A., 2, 2253. A study of the effects of the C10H8 ring upon the solubility in alks. of various phenols.
2-Acetonaphthol-α-naphthylhydrazone, from AcC10H6OH and the hydrazine, m. 179-80°, insol. in b. NaOH.
β-Naphthylhydrazone, yellow-brown crystals from alc., m. 174-6°, insol. in warm 10% NaOH. Benzylphenylhydrazone, crystals from alc., m. 130-2°, insol. in b. 10% NaOH. Azine, light orange crystals which decompose at high temps., insol. in b. 30% NaOH; monoacetate, from the azine and Ac2O crystals from C6H6-ligroin, m. 169-70°. Benzidine, (HOC10H6CMe : NC6H4)2, from HOC10H6Ac, (C6H4NH2)2 and ZnCl2, light red amorphous powder, decompose 210°, insol. in b. 30% NaOH. Semicarbazone, pale yellow powder, m. 245-50°, soluble in cold NaOH. β-Naphthylamine, from HOC10H6Ac, C10H7NH2 and ZnCl2, yellow powder, m. 161-20°, insol. in b. NaOH. p-Aminophenol, dark green scales from glacial AcOH, decompose 210-20°, easily soluble in cold NaOH. 1,5-Diphenyl-3-α-naphtholpyrazoline, from HOC10H6COCH : CHPh and PhNHNH2, light yellow granules from glacial AcOH, m. 189° (decompose), insol. in b. 10 or 30% NaOH. Monobromo-2-acetonaphthyl acetate, from HOC10H6BrAc and Ac2O, crystals from alc., m. 95-6°, insol. in cold NaOH but decompose on warming. Monobromo-2-acetonaphthol-α-naphthylhydrazone, brown crystals, m. 175-6° (decompose), insol. in NaOH. β-Naphthylhydrazone, pink crystals, m. 184-6° (decompose), insol. in warm 10% NaOH. Benzylphenylhydrazone, yellow, m. 125-6°, insol. in warm 10% NaOH. Oxime, pale yellow crystals from alc., m. 189-90° (decompose), forms a difficultly soluble green salt with NaOH. Semicarbazone, pale yellow amorphous powder, decompose at high temps. and easily soluble in aqueous NaOH.
Azine, bright orange needles from freshly distilled PhNH2 which decompose at high temps., and are insol. in NaOH. 4-Nitro-2-acetonaphtholphenylhydrazone, red needles from glacial AcOH, m. 222-3° (decompose) and insol. but decompose by NaOH. Monoacetate, crystals from alc., m. 197-8° (decompose). 4-Nitro-2-acetonaphthol-p-bromophenylhydrazone, dark red, m. 257-8° (decompose), insol. in cold, soluble in warm alks. α-Naphthylhydrazone, dark red, decompose when heated and insol. in cold NaOH. β-Naphthylhydrazone, bright red, decompose 240°, insol. in cold, decompose by warm NaOH. β-Hydroxynaphthylaldehyde-p-bromophenylhydrazone, shining yellow crystals from AcMe, m. 194-5° (decompose), insol. in b. 10% NaOH. Benzylphenylhydrazone, pale green crystals from glacial AcOH, m. 152-3°, entirely insol. in b. NaOH. Benzidine, scarlet, decompose when heated and is insol. in NaOH. Semicarbazone, yellow needles from alc., sinters 217° and m. above 240° (decompose). It is readily soluble in cold 10% NaOH. Phenylhydrazone monoacetate, silky needles from 60% alc., m.

L16 ANSWER 3041 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)
164-5°. Azine monoacetate, yellow crystals from alc., m. 183-5°. By treating the phenylhydrazone with NH2OH and alk. the hydrazone was converted into the oxime. Two oximes were sepd. having different m. p. and solubilities. Yellow-brown needles from alc., m. 148-50°, and salmon-colored crystals from 50° alc., m. 158-60°. Benzal-2-acetonaphthol tribromide, from PhCH : CHCOC10H6OH and Br in CCl4, bright yellow needles from EtOH-C6H6, m. 199°, insol. in b. 30% NaOH. Piperonal-4-bromo-2-acetonaphthol, bright red, amorphous, decomp. 209-14°, insol. in 30% NaOH. Furfural derivative, dark red needles from alc. CCl4, m. 154-5°, entirely insol. in 30% b. NaOH. p-Nitrobenzal derivative, orange-red crystals from Et2O-alc., m. 194-5°, insol. in 30% NaOH. Acetylsalicylaldehydebenzylphenylkydrazone, by acetylation of the HOC6H4CHO deriv. according to Denninger (Ber., 28, 1322) in C5H5N soln., thin lustrous plates from alc., m. 137-9°.
5-Bromosalicylaldehydephenylacethydrazone acetate, crystals from 80% alc., m. 135-6°. 5-Bromosalicylaldehyde-azine, yellow crystals from PhNO2,-alc., m. 305-7° (decomp.). readily sol. in cold 10% NaOH. HOC6H4CMe : NNHPh was prepd. and found to be readily sol. in dil. NaOH, (HOC6H4CH : NC6H4)2, on the contrary, entirely insol. Most of the hydrazones described in this paper were affected by light, undergoing various color changes. In agreement with Chattaway's theory (rearrangement to azo-compds., J. Chem. Soc., 89, 462), those in which the H of the NH group was substituted were unaffected. The OH group of all these substances insol. in alks. was not detectable, e. g., by PhNCO, MeI or MeSO4.
IT 677332-07-9P
RL: SPN (Synthetic preparation); PRP (Properties); PREP (Preparation)
(Hydrazones of Hydroxy-aldehydes and Ketones. Alkali-insoluble Naphthols)
RN 677332-07-9 CAPLUS
CN 1-Naphthalenecarboxaldehyde, 2-hydroxy-, 2-(4-bromophenyl)hydrazone (CA INDEX NAME)



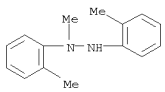
L16 ANSWER 3042 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1913:4127 CAPLUS
DOCUMENT NUMBER: 7:4127
ORIGINAL REFERENCE NO.: 7:587i,588a-b
TITLE: Action of p-Bromophenylhydrazine upon Glucurone
AUTHOR(S): Goldschmiedt, G.; Zerner, Ernst
CORPORATE SOURCE: Vienna
SOURCE: Monatshefte fuer Chemie (1913), 33, 1217-31
CODEN: MOCMB7; ISSN: 0026-9247
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB In the prepare of the osazone from p-BrC6H4NHNH2 and glucurone it was found that the product always contained ash, and that it was not always identical with that of Neuberg (Ber., 32, 2395). Since pure materials were always used this ash must be due to a salt formation. The attempt with free PhNHNH2 in AcOH solution gave negative results unless the glucurone was previously combined with a base. Sodium p-bromophenylosazoneglucuronate, from Na glucuronate, p-BrC6H4NHNH2.HCl, NaOAc ahd a little free AcOH, long, yellow needles, m. 185-190° (decompose); hygroscopic; sp. rotation, -259°. Barium salt, microscopic, light yellow needles, m. 215-7° (decompose), very hygroscopic. Calcium salt. The formula of these salts is probably BrC6H4NHN : CHC(: NNHC6H4Br)CH(OH)CH(OH)CH(OH)CO2M. The Ba salt of the osazone is recommended as a test for glucuronic acid.
IT 99749-80-1, Glucuronic acid, p-bromophenylosazone
(salts of)
RN 99749-80-1 CAPLUS
CN D-arabino-Hexulosuronic acid, bis[(p-bromophenyl)hydrazone] (7CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

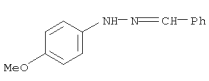


L16 ANSWER 3043 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1912:460 CAPLUS
DOCUMENT NUMBER: 6:460
ORIGINAL REFERENCE NO.: 6:78f-i,79a-g
TITLE: Hydrazo Compounds. VII, Methylhydrazotoluene, Methyltolidine and Ethylbenzidine
AUTHOR(S): Rassow, Berthold; Becker, Arno
CORPORATE SOURCE: Techn. Abt. chem. Univ.-Lab., Leipzig
SOURCE: Journal fuer Praktische Chemie (Leipzig) (1912), 84, 329-52
CODEN: JPCEAO; ISSN: 0021-8383
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
GI For diagram(s), see printed CA Issue.
AB cf. C. A., 6, 76. (o-MeC3H4NH)2, m. 156°, not 165°, can be methylated by means of Me2SO4 in the presence of MgO in C6H6, but it requires much longer b. and twice as much of the Me2SO4 and MgO as is necessary in the case of Ph2N2. Thus, 20 g. (o-MeC6H4NH)b2, 15 g. MgO and 30 g. Me2SO4, b. 30-40 hrs. in 200 g. C6H6, gave 5.5 g. methythydrazo-o-toluene, MeC6H4NHNMeC6H4Me, rhombic, rectangular, or almost quadratic tables, m. 84°, soluble in most organic solvents but insol. in H2O. (o-C6H4N)2 and o-MeC6H4NH2 are also formed in considerable amts. When once obtained pure, it does not turn red in the air. In absolute alc. HCl (d. 1.19) traus-forms it into methyltolidine (I), m. 85°, stable when dry, but when moistened or on long standing of the solution it turns deep blue. Hydrochloride, C15H16N2.2HCl, decompose 260-80°, becomes blue and finally dirty green on long standing in H2O. Chloroplatinate, C15H20N2.PtCl6, brownish yellow precipitate, very unstable. Picrate, microscopic needles, decompose 184-6°. With BzCl and KOH, the base gives dibenzoylmethyllolidine, BzNHC6H3MeC6H3MeNMeBz, microscopic needles, m. 156°; with o-HOC6H4CHO in absolute alc. is obtained the compound MeNHCH6H3MeC6H3MeN : CHC6H4OH, needles, m. 120°, soluble in cold dilute H2SO4 without change, but on b. the compound is split into its components. When the hydrochloride was treated with a little more than the calculate amount of NaNO2 for the formation of the diazonium salt, MeNHC6H3MeC6H3MeN2Cl, the solution gave a test for free HNO2 but on standing the excess of HNO3 disappeared, and only when 2 mols. NaNO2 had been added was a permanent test with KI-starch paper obtained, showing that the compound ONNMeC6H3Me C6H3MeN3Cl had been formed, but that the o-Me group had protected the MeNH group from being instantly attacked. This was confirmed by the prepare of the following compounds: Methyl-o-tolidineazoβ- naphthol, MeNHC6H3MeC6H3MeN2C10H6OH, from the hydrochloride, 1 mol. NaNO2 and-β-naphthol, gleaming, dark red crystals, m. 90-2° decompose 120°, soluble in concentrate acids, insol. in alks. Methylntroso-o-tolidineazo-β-naphthol, obtained when 2 mols. NaNO2 were used, m. 173° more intensely colored than the preceding compound, insol. in concentrate HCl; b. a long time with alc. HCl, it gives the above methyltolidlneazonaphthol. Methltolidineazodimethylamiline dark brown crystals, decompose about 100°, insol. in alks., soluble in concentrate acids. Hydrochloride, dark

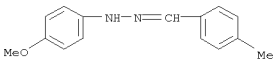
L16 ANSWER 3043 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)
red powder. Methylnitrosoo-tolidineazodimethylaniline reddish yellow triclinic crystals, extinction of 8° to 16° on the vertical faces, pleochroitic (deep blood-red lengthwise and carmine-red crosswise), m. 160°, decomp, 180°; alc. HCl converts it into the preceding compd., but much more slowly than is the case with the β-naphthol deriv. Disodium methyl-o-tolidineazo-β-naphtholdisulfonate, changes about 200° without distinct decomp, sol. in H2O and acids, insol. in alks. The azodimethylaniline deriv. combines with PhN2Cl to form the compound MeNHC6H2Me(N2Ph)C6H3MeN2C6H4NMe2, brown ppt., decomp. 180-90°; the azonaphtholdisulfonate gives the compound (II), dark red, decomp. about 250°. The azodisulfonate likewise forms a deep bluish violet dye with diazotized p-H2NC6H4SO3H. Dyeing expts. on non-mordanted cotton showed that the introduction of a 2nd diazo group into the azo compds. produced a marked increase in coloring power and a shifting of the shade towards the blue. From (PhNH)2 and Et2SO4. was obtained, in very small amt., ethylbenzidine, m. 73-4°.
IT 866995-84-8P, Toluene, o,o'-(methylhydrazo)bis-
RL: PREP (Preparation)
(preparation of)
RN 866995-84-8 CAPLUS
CN Toluene, o,o'-(methylhydrazo)bis- (1CI) (CA INDEX NAME)



L16 ANSWER 3044 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1911:22251 CAPLUS
DOCUMENT NUMBER: 5:22251
ORIGINAL REFERENCE NO.: 5:3809c-f
TITLE: Influence of Auxochromes on Phototrophy
AUTHOR(S): Padoa, M.; Santi, L.
CORPORATE SOURCE: Lab. chim. gen. r. univ. Bologna
SOURCE: Atti della Accademia Nazionale dei Lincei, Classe di Scienze Fisiche, Matematiche e Naturali, Rendiconti (1911), 20(II), 196-200
CODEN: AANLAW; ISSN: 0001-4435
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB In general, the phototropy of hydrazones of aldehydes containing auxochromes is more marked than that of derivs. of aldehydes containing no such groups. An auxochrome in the p-position seems to have more influence than one in the o-position. A comparative study of compds. in which the auxochrome is in the hydrazine group shows some irregularities. From p-MeOC6H4NHNH2, which is easily prepared by diazotizing MeOC6H4NH2 and reducing the product with SnCl2, were obtained the following compds.: Benzaldehydeanishydrazone, faintly yellow, silky needles, m. 123°, phototropic. Anisalanishydrazone, yellow scales, m. 126°, non-phototropic. Cinnamalanishydrazone, short opaque needles, intensely yellow, grouped in rosets, m. 126.5°, phototropic. Cuminalanishydrazone, light yellow needles, m. 99°, phototropic. Piperonalanishydrazone, greenish yellow needles, m. 134-5°, phototropic. p-Tolualanishydrazone, yellow scales, m. 131°, non-phototropic. Vanillin anishydrazone, minute, pale yellow prisms, m. 125-6°, phototropic. Salicylalanishydrazone, greenish yellow needles, m. 132°, non-phototropic.
IT 10407-20-2P, Benzaldehyde, p-anisylhydrazone 66875-54-5P, p-Tolualdehyde, p-anisylhydrazone 103185-59-7P, Anisaldehyde, p-anisylhydrazone 828246-83-9P, Salicylaldehyde, p-anisylhydrazone 860765-16-8P, Piperonal, p-anisylhydrazone 861538-30-9P, Cumaldehyde, p-anisylhydrazone
RL: PREP (Preparation)
(preparation of)
RN 10407-20-2 CAPLUS
CN Benzaldehyde, 2-(4-methoxyphenyl)hydrazone (CA INDEX NAME)

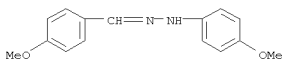


RN 66875-54-5 CAPLUS
CN Benzaldehyde, 4-methyl-, 2-(4-methoxyphenyl)hydrazone (CA INDEX NAME)

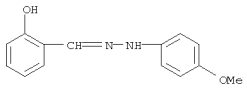


RN 103185-59-7 CAPLUS

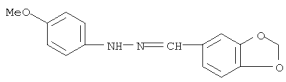
L16 ANSWER 3044 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)
CN Benzaldehyde, 4-methoxy-, 2-(4-methoxyphenyl)hydrazone (CA INDEX NAME)



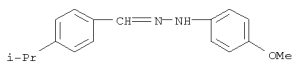
RN 828246-83-9 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-(4-methoxyphenyl)hydrazone (CA INDEX NAME)



RN 860765-16-8 CAPLUS
CN 1,3-Benzodioxole-5-carboxaldehyde, 2-(4-methoxyphenyl)hydrazone (CA INDEX NAME)



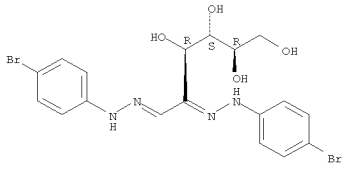
RN 861538-30-9 CAPLUS
CN Benzaldehyde, 4-(1-methylethyl)-, 2-(4-methoxyphenyl)hydrazone (CA INDEX NAME)



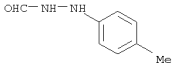
L16 ANSWER 3045 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1911:19324 CAPLUS
DOCUMENT NUMBER: 5:19324
ORIGINAL REFERENCE NO.: 5:3264d-i,3265a-f
TITLE: By-products Obtained during the Preparation of Phloroglucinyldicarboxylic Ester
AUTHOR(S): Leuchs, Hermann; Simion, Fritz
CORPORATE SOURCE: Chem. Inst., Univ. Berlin
SOURCE: Berichte der Deutschen Chemischen Gesellschaft (1911), 44, 1874-84
CODEN: BDCGAS; ISSN: 0365-9496
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
GI For diagram(s), see printed CA Issue.
AB see C. A., 3, 542. The condensation of Et malonate is best accomplished by mixing the ester (200 g.) with absolute alc. (200 cc.) and Na (15 g.), distilling off the alc. and heating the residue at 135-40°, during 12 hrs. The product is separated by a somewhat complicated process, previously described. The compds. described below are obtained from the filtrate, after the removal of di-Et phloroglucinyldicarboxylate. Triethyl ester formula (I) below, is purified by solution in cold petroleum ether, and subsequent recrystn. from alc.; long, white, interlaced needles, m. 95.5-6.5°; mol. weight, in C6H6, 347-75. It gives a deep reddish brown color with FeCl3 and a pale yellow solution with cold, concentrate HNO3. Yield, 3% of the reacting malonic ester. At 110-30°, KOH converts it into phloroglucinol. In alc., HONH2 and (I) form a compound, C15H15O9N; small, lustrous, quadratic tablets, or prisms from C6H6, m. 203-4° (decompose). In addition a more soluble substance is produced in small quantity; short needles from alc., m. about 230° (decompose). Ac2O + AcONa convert (I) into the triacetyl compound (II); colorless prisms from alc., m. 109-10°. The mother liquor contains an ester, C21H20O12, in small quantity, it is apparently derived from the acid (m. 165° see below), some of which must have been present in the material employed; colorless needles, m. 145-6°. When b. with aqueous HI (d. 1.7) (II) is hydrolyzed to the compound (III); feathery aggregates of needles from glacial AcOH, not m. 300°. In presence of aqueous "bicarbonate," it reduces "permanganate." Concentrate H2SO4 and (I) give an ester anhydride, C17H18O9; long, hexagonal needles from C6H6 and alc., m. 153-4°. Yield, 36% of (I). At the ordinary temperature, 1 N aqueous NaOH hydrolyzes (I) to the acid ester (IV); massive, prismatic crystals from C6H6, m. 162-3°. At the ordinary temperature, HNO3 (d 1.4) and (I) form a compound, C14H16O8, which is also found among the original by-products, in that case too it is produced from (I) by the action of the acid employed; broad, colorless, lustrous needles from alc., m. 128-9°. In the acid mother liquor is a second compound, C16H18O10; needles, or prisms from alc., m. 99-100°. The original condensation product also contains an acid, C15H16O10, which is doubtless formed by the action of alkali on its ester (see above); colorless, lustrous, acute-angled prisms from C6H6, m. about 165° (gas evol.). When fused it evolves CO2 and gives the compound C14H16O8, described above. With Ac2O + AcONa the acid forms the ester; C21H20O12, (m. 145-6°) described above. The original reaction product, after being heated at 140°, contains a compound, C22H20O12; pale yellow needles from alc., or glacial AcOH, m. 196-7°. In alc. it exhibits a feeble, greenish yellow fluorescence

L16 ANSWER 3045 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)
and it contains 3 EtO groups. The final by-product obtained was an ester (V); it is identical with Willstatter's compd. (m. p. 177-8°) (Ber., 32, 1272 (1899)) and also with that to which O. Bally assigned the formula C13H12O8 (m. p. 170°) (Ber., 21, 1766 (1888)). At 100-30°, aq. KOH hydrolyzes it to phloroglucinol.
IT 94061-61-7, d-Glucose, p-bromophenylosazones (acetohalogen derivs. of)
RN 94061-61-7 CAPLUS
CN D-arabino-Hexos-2-ulose, bis[(4-bromophenyl)hydrazone] (9CI) (CA INDEX NAME)

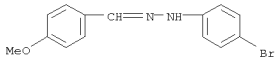
Absolute stereochemistry.
Double bond geometry unknown.



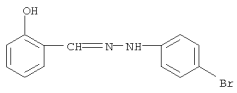
L16 ANSWER 3046 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1911:3771 CAPLUS
DOCUMENT NUMBER: 5:3771
ORIGINAL REFERENCE NO.: 5:694g-i
TITLE: Action of Water on Nitrosohydrazines
AUTHOR(S): Giovetti, R.
CORPORATE SOURCE: Ist. chim. r. univ. Torino
SOURCE: Gazzetta Chimica Italiana (1911), 39(II), 655-60
CODEN: GCITA9; ISSN: 0016-5603
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. Ponzio, C. A., 2, 2812. The transformation of acylarylnitrosohydrazines, RCONHNArNO, by H2O into acylarylhydrazines, RCONHNHAr, is a general reaction. Formyl-p-tolylnitrosohydrazine, almost white leaflets, m. 85-6° (decompose), prepared from formyl-p-tolylhydrazine, needles, m. 164°. p-Toluyl-p-tolylhydrazine, needles, m. 177°. p-Toluyl-p-tolylnitrosohydrazine, yellowish laminas, m. 110° (decompose). Anisoyl-p-tolylhydrazine, needles, m. 158°. Nitroso derivative, yellowish laminas m. 107-9° (decompose). Formyl-p-bromophenylnitrosohydrazine, yellowish laminas, m. 84-5° (decompose). p-Toluyl-p-bromophenylnitrosohydrazine, yellowish laminas, m. 99-102° (decompose). Anisoyl-p-bromophenylnitrosohydrazine, light yellow laminas, m. 100-1° (decompose).
IT 38577-24-1
RL: PRP (Properties); RCT (Reactant); RACT (Reactant or reagent)
(Action of Water on Nitrosohydrazines)
RN 38577-24-1 CAPLUS
CN Hydrazinecarboxaldehyde, 2-(4-methylphenyl)- (CA INDEX NAME)



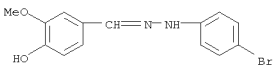
L16 ANSWER 3047 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1911:1708 CAPLUS
DOCUMENT NUMBER: 5:1708
ORIGINAL REFERENCE NO.: 5:277f-i
TITLE: Influence of Halogens on the Phototropy of Hydrazones
AUTHOR(S): Graziani, F.
CORPORATE SOURCE: Lab. chim. gen. r. univ. Bologna
SOURCE: Atti della Accademia Nazionale dei Lincei, Classe di Scienze Fisiche, Matematiche e Naturali, Rendiconti (1911), 19(II), 190-3
CODEN: AANLAW; ISSN: 0001-4435
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. C. A., 4, 2296, 2453. The following hydrazones were obtained by suspending the hydrazine in H2O, dissolving in AcOH and adding the aldehyde. Benzaldehyde p-bromophenylhydrazone, long, slightly yellow needles, m. 129°, acquires a pink color in sunlight in 2-3 min. which is destroyed on heating at 70-5°. The compound, however, is unstable, becoming pink, and the disappearance of the color produced by sunlight cannot be observed when the compound is allowed to stand in the dark. Anisaldehyde p-bromophenylhydrazone, white leaflets, m. 150°, non-phototropic. Cinnamaldehyde p-bromophenylhydrazone, flat, gleaming, yellowish green needles, m. 143°, assumes a greenish brown color in sunlight in 3-4 mins., which disappears at 125-30° or after 2-3 d. in the dark. Cuminal p-bromophenylhydrazone, flat yellowish needles, m. 135°; assumes a red color in sunlight in 1 min.; this disappears at 65-70°, or in less than 20 hrs. in the dark. Piperonal p-bromophenylhydrazine, leaves, m. 155° (decompose); non-phototropic. p-Tolualdehyde p-bromophenylhydrazone, yellowish leaflets, m. 162° (decompose); non-phototropic. Vanillin p-bromophenylhydrazone, slightly yellow leaflets, m. 146°, non-phototropic. Salicylaldehyde p-bromophenylhydrazone, fine yellowish needles, m. 171-2°; feebly phototropic, assuming a faint orange color in 3-4 mins. in sunlight which disappears in less than a day in the dark.
IT 27241-90-3P 291522-62-8P 585566-46-7P
RL: SPN (Synthetic preparation); PRP (Properties); PREP (Preparation)
(Influence of Halogens on the Phototropy of Hydrazones)
RN 27241-90-3 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(4-bromophenyl)hydrazone (CA INDEX NAME)



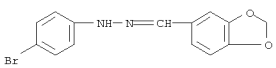
RN 291522-62-8 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-(4-bromophenyl)hydrazone (CA INDEX NAME)



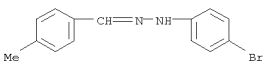
L16 ANSWER 3047 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)
RN 585566-46-7 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-methoxy-, 2-(4-bromophenyl)hydrazone (CA INDEX NAME)



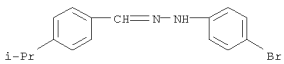
IT 27246-75-9P, Piperonal, p-bromophenylhydrazone 66875-50-1P, p-Tolualdehyde, p-bromophenylhydrazone 861576-11-6P, Cumaldehyde, p-bromophenylhydrazone 872820-75-2P, Cinnamaldehyde, p-bromophenylhydrazone
RL: PREP (Preparation)
(preparation of)
RN 27246-75-9 CAPLUS
CN 1,3-Benzodioxole-5-carboxaldehyde, 2-(4-bromophenyl)hydrazone (CA INDEX NAME)



RN 66875-50-1 CAPLUS
CN Benzaldehyde, 4-methyl-, 2-(4-bromophenyl)hydrazone (CA INDEX NAME)

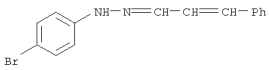


RN 861576-11-6 CAPLUS
CN Benzaldehyde, 4-(1-methylethyl)-, 2-(4-bromophenyl)hydrazone (CA INDEX NAME)

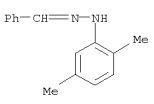


RN 872820-75-2 CAPLUS
CN 2-Propenal, 3-phenyl-, 2-(4-bromophenyl)hydrazone (CA INDEX NAME)

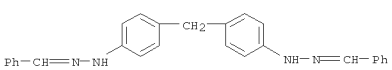
L16 ANSWER 3047 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



L16 ANSWER 3048 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1911:1707 CAPLUS
DOCUMENT NUMBER: 5:1707
ORIGINAL REFERENCE NO.: 5:277c-f
TITLE: Relations between Constitution and Phototropy. II
AUTHOR(S): Padoa, M.; Graziani, F.
CORPORATE SOURCE: Lab. chim. gen. r. univ. Bologna
SOURCE: Atti della Accademia Nazionale dei Lincei, Classe di Scienze Fisiche, Matematiche e Naturali, Rendiconti (1911), 19(II), 193-6
CODEN: AANLAW; ISSN: 0001-4435
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. C. A., 4, 2453. All the derivs. of 1,4,5-xylylhydrazine and 3 out of the 4 derivs. of 1,3,5-xylylhydrazine described below are non-phototropic.
1,4,5-Xylylhydrazine hydrochloride, ClH.H2NC6H3Me2 (1,4), m. 209°. Benzaldehyde 1,4,5-xylylhydrazone, dirty yellow needles, m. 89°. Anisaldehyde 1,4,5-xylylhydrazone, yellowish white leaflets, m. 117°. Cinnamaldehyde 1,4,5-xylylhydrazone, yellow needles, m. 121°. Cuminal 1,4,5-xylylhydrazone, yellow needles, m. 85°. Piperonal 1,4,5-xylylhydrazone, yellow scales, m. 135°. p-Tolualdehyde 1,4,5-xylylhydrazone, minute, slightly yellow leaflets, m. 109°. Vanillin 1,4,5-xylylhydrazone, fine needles, m. 158°. Salicylaldehyde 1,4,5-xylylhydrazone, slightly yellow scales, m. 134°. Cinnamaldehyde 1,3,5-xylylhydrazone, C7H7CH : NNHC6H3Me2 (1,3), yellow, m. 142-3°, phototropic, becoming darker (chocolate color) in the sun in 2-3 min. and resuming its original color at 75-80°, or in somewhat more than 1 day in the dark. p-Tolualdehyde 1,3,5-xylylhydrazone, yellow needles in rosets, m. 119°. Piperonal 1,3,5-xylylhydrazone, yellow needles, m. 135-6°. Anisaldehyde 1,3,5-xylylhydrazone, dirty yellow needles, m. 144-5°.
IT 861528-80-5P, Benzaldehyde, 2,5-xylylhydrazone
RL: PREP (Preparation)
(preparation of)
RN 861528-80-5 CAPLUS
CN Benzaldehyde, 2-(2,5-dimethylphenyl)hydrazone (CA INDEX NAME)

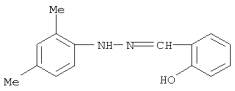


L16 ANSWER 3049 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1910:17955 CAPLUS
DOCUMENT NUMBER: 4:17955
ORIGINAL REFERENCE NO.: 4:3220h-i,3221a-d
TITLE: Quinoline and Indole Derivatives from 4,4'-Diaminodiphenylmethane
AUTHOR(S): Borsche, W.; Kienitz, G. A.
CORPORATE SOURCE: Gen. Chem. Inst.;Univ. Gottingen
SOURCE: Berichte der Deutschen Chemischen Gesellschaft (1910), 43, 2333-7
CODEN: BDCGAS; ISSN: 0365-9496
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
GI For diagram(s), see printed CA Issue.
AB p,p'-Diquinolylmethane, formula (I) below, is prepared in the ordinary manner from 4,4'-diaminodiphenylmethane, in presence of H3AsO4; colorless needles from alc. or CHCl3, m. 160°. Yield, about 25% of the parent substance. Picrate, short, light yellow needles from alc., m. 195-7°. 4,4'-Dihydrazinodiphenylmethane, (H2NNHC6H4)2CH2, is prepared by E. Fischer's method from 4,4'-diaminodiphenylmethane; colorless, unstable plates from C6H6, m. 71-2°. Hydrochloride, white, crystalline powder. 4,4'-Dibenzaldihydrazinodiphenylmethane, (PhCH : NNHC6H4)2CH2, from BzH and the preceding compound; yellow plates from glacial AcOH, m. 193-4°. Dextrosediphenylmethanedihydrazone, [HOCH2(CHOH)4CH : NNHC6H4]2CH2, from the hydrazine hydrochloride; dark yellow; crystallin powder from AcOH, m. 122-3° (decompose). The hydrazine and acetone give a condensation product; long brownish, needles.
It is hydrolyzed readily to its constituents. The product from cyclohexanone is crystallin and unstable, when warmed with AcOH it condenses to p,p'-bis-[α,β-tetramethyleneindolyl]-methane (II); yellow, crystalline powder from alc., m. 265°. Under similar conditions, cyclopentanone gives p,p'-bis-[α,β-trimethyleneindole-]methane (III); yellow powder from dilute AcOH, m. 262°. Suberonediphenylmethanedihydrazo is reddish yellow and resinous. It gives p,p'-bis-[α,[β-pentametzyleneindolylmethanel (IV) with AcOH; brownish, crystallin granules, softens 300° without m.
IT 861596-60-3P, Hydrazine, β,β'-dibenzal-p,p'-methylenebis[α-phenyl-
RL: PREP (Preparation)
(preparation of)
RN 861596-60-3 CAPLUS
CN Benzaldehyde, 2-[4-[[4-[2-(phenylmethylene)hydrazinyl]phenyl]methyl]phenyl]hydrazone (CA INDEX NAME)

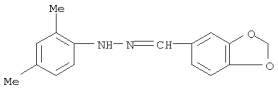


L16 ANSWER 3050 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1910:13693 CAPLUS
DOCUMENT NUMBER: 4:13693
ORIGINAL REFERENCE NO.: 4:2453g-i,2454a-d
TITLE: Relations between Constitution and Phototropy
AUTHOR(S): Padoa, M.; Graziani, F.
CORPORATE SOURCE: Lab. chim. gen. r. univ. Bologna
SOURCE: Atti della Accademia Nazionale dei Lincei, Classe di Scienze Fisiche, Matematiche e Naturali, Rendiconti (1910), 19(I), 489-95
CODEN: AANLAW; ISSN: 0001-4435
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
GI For diagram(s), see printed CA Issue.
AB 1,3,4-Xylylhydrazones (I) are non-phototropic while almost all 1,2,4-xylylhydrazones (II) are phototropic. Benzaldehyde-1,3-4-xylylhydrazone, yellowish scales, m. 86°. Anisaldehyde,1,3,4-xylylhydrazone, long, yellowish needles, m. 97°. Cinnamic-aldehyde-1,3,4-xylylhydrazone, lemon-yellow, m. 115°. Cuminal-.1,3,4-xylylhydrazone, needles, m. 76°. Piperonal-1,3,4-xylylhydrazone, slightly pink, M. 90°. p-Toluic-aldehyde-1,3,4-xylylhydrazone, canary-yellow, m. 99°. Vanillin-1,3,4-xylylhydrazone, yellowish needles, m. 99°. Salicylic-aldehyde-1,3,4-xylylhydrazone, yellow needles, m. 86°. 1,2,4-Xylylhydrazine, yellowish needles, m. 57°; hydrochloride, scales, m. 197°(decompose). Benzaldehyde-1,2,4-xylylhydrazone, yellowish crystalline powder, m. 126°; becomes pink in 2 min. in sunlight, and colorless at 120°, or in 2-3 ds. in the dark Anisaldehyde-1,2,4-xylylhydrazone, needles, m. 116°, becomes pinkish violet in sunlight in 2 min- and colorless at 95-100°, or in 2-3 ds. in the dark. Cinnamic-aldehyde-1,2,4-xylylhydrazone, yellow needles, m. 153°, non-phototropic. Cuminal-1,2,4-xylylhydrazone, long yellowish needles, m. 143°; becomes pink in sunlight in 3-4 min., and colorless at 110° or in the dark after 2 ds. Piperonal-1,2,4-xylylhydrazone, white crystalline powder, m. 118°, becomes red in sunlight in 2-3 min., and very quickly colorless in the dark (10 min.). p-Toluic-aldehyde-1,2,4-xylylhydrazone, canary-yellow crystalline powder, m. 135°, becomes very faintly pink in sunlight in 3-4 min. and colorless in the dark after 2 ds. Vanillin-1,2,4-xylylhydrazone, white crystalline powder, m. 118°, non-phototropic. Salicylic-aldehyde-1,2,4-xylylhydrazone, yellowish needles, m. 157°, slightly phototropic. Piperonal-β-naphthylhydrazone (Rothenfusser, Chemical Zentr., 1907, II, 1513) is phototropic, its red color increasing in intensity in sunlight and returning to its former tinge after 30 hrs. in the dark. Vanillin-β-naphthylhydrazone, m. 185°, is phototropic. p-Toluic-aldehyde-β-naphthylhydrazone, slightly yellow scales, m. 188°, becomes strongly pink in sunlight in 2-3 min. and colorless at 100 or in the dark in 2-3 ds. Salicylic-aldehyde-β-naphthylhydrazone, dirty-yellow needles, m. 187°, non-phototropic.
IT 380317-22-6P 391645-95-7P 391645-97-9P 391646-08-5P 391646-16-5P 391646-39-2P
RL: SPN (Synthetic preparation); PRP (Properties); PREP (Preparation) (Relations between Constitution and Phototropy)
RN 380317-22-6 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-(2,4-dimethylphenyl)hydrazone (CA INDEX NAME)

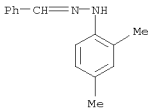
L16 ANSWER 3050 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



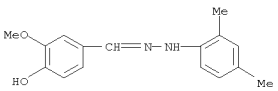
RN 391645-95-7 CAPLUS
CN 1,3-Benzodioxole-5-carboxaldehyde, 2-(2,4-dimethylphenyl)hydrazone (CA INDEX NAME)



RN 391645-97-9 CAPLUS
CN Benzaldehyde, 2-(2,4-dimethylphenyl)hydrazone (CA INDEX NAME)

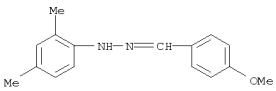


RN 391646-08-5 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-methoxy-, 2-(2,4-dimethylphenyl)hydrazone (CA INDEX NAME)

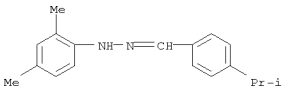


RN 391646-16-5 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(2,4-dimethylphenyl)hydrazone (CA INDEX NAME)

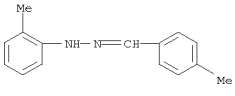
L16 ANSWER 3050 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



RN 391646-39-2 CAPLUS
CN Benzaldehyde, 4-(1-methylethyl)-, 2-(2,4-dimethylphenyl)hydrazone (CA INDEX NAME)

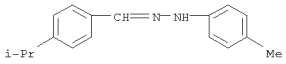


L16 ANSWER 3051 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1910:13692 CAPLUS
DOCUMENT NUMBER: 4:13692
ORIGINAL REFERENCE NO.: 4:2453c-g
TITLE: New Phototropic Substances. II
AUTHOR(S): Padoa, M.; Graziani, F.
SOURCE: Atti della Accademia Nazionale dei Lincei, Classe di Scienze Fisiche, Matematiche e Naturali, Rendiconti (1910), 18(II), 559-64
CODEN: AANLAW; ISSN: 0001-4435
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. C. A., 4, 1739. Cinnamic aldehyde phenylhydrazone (Fischer, Ber., 17, 575), m. 171°, is slightly phototropic. Piperonal phenylhydrazone (Rudolph, Ann., 248, 103), m. 106°, is not phototropic. p-Toluic aldehyde Phenylhydrazone, yellow cyst. powder, m. 121°, is slightly phototropic, losing its color at 105-10°. Benzaldehyde-m-tolylhydrazone, yellowish white needles, m. 100°; assumes a pink color in sunlight, which disappears on heating to 80°. Anisaldehyde-m-tolylhydrazone, yellow crystalline powder, m. 111°; non-phototropic. Cuminal-m-tolylhydrazone, yellowish white needles, m. 136°; slightly phototropic. Cinnamic aldehyde-m-tolylhydrazone, yellow crystalline powder, m. 131°; slightly phototropic. Piperonal-m-tolylhydrazone, canary-yellow needles, m. 131°; exposed 3-4 min. to sunlight it becomes intensely pink, almost red, losing its color in the dark in 3-4 days, or when heated at 115-20°. p-Toluic-aldehyde-m-tolylhydrazone, intensely yellow crystalline power, m. 121°; non-phototropic. Benzaldehyde-0-tolylhydrazone; the coloration observed by Reutt and Pawlewski (Chemical Zentr., 1903, II, 1432) is not a phototropic phenomenon. Anisaldehyde-0-tolylhydrazone, gleaming scales, m. 94°; non-phototropic. Cuminal-o-tolylhydrazone, canary-yellow scales, m. 91°; non-phototropic. Cinnamic-aldehyde-o-tolylkydrazone, yellow scales, m. 118°; non-phototropic. Piperonal-o-tolylhydrazone, yellow scales, m. 87°; non-phototropic. p-Toluic-aldehyde-0-tolylhydrazone, light yellow scales, m. 109°; non-phototropic, although it turns red in the air, especially when moist
IT 304653-64-3P 389874-94-6P 390427-28-8P
RL: SPN (Synthetic preparation); PRP (Properties); PREP (Preparation) (New Phototropic Substances. II)
RN 304653-64-3 CAPLUS
CN Benzaldehyde, 4-methyl-, 2-(2-methylphenyl)hydrazone (CA INDEX NAME)

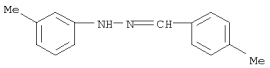


RN 389874-94-6 CAPLUS
CN Benzaldehyde, 4-(1-methylethyl)-, 2-(4-methylphenyl)hydrazone (CA INDEX NAME)

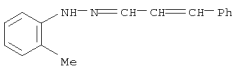
L16 ANSWER 3051 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



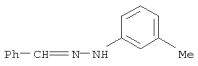
RN 390427-28-8 CAPLUS
CN Benzaldehyde, 4-methyl-, 2-(3-methylphenyl)hydrazone (CA INDEX NAME)



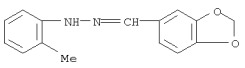
IT 23718-98-1P, Cinnamaldehyde, o-tolylhydrazone 62698-28-6P
, Benzaldehyde, m-tolylhydrazone 100969-37-7P, Piperonal,
o-tolylhydrazone 111032-47-4P, Anisaldehyde, m-tolylhydrazone
390408-51-2P, Piperonal, m-tolylhydrazone 390427-11-9P,
Cumaldehyde, m)-tolylhydrazone 479607-77-7P, Cumaldehyde,
o-tolylhydrazone 745056-86-4P, Anisaldehyde, o-tolylhydrazone
861536-32-5P, Cinnamaldehyde, m)-tolylhydrazone
RL: PREP (Preparation)
(preparation of)
RN 23718-98-1 CAPLUS
CN 2-Propenal, 3-phenyl-, 2-(2-methylphenyl)hydrazone (CA INDEX NAME)



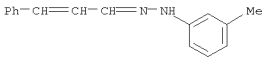
RN 62698-28-6 CAPLUS
CN Benzaldehyde, 2-(3-methylphenyl)hydrazone (CA INDEX NAME)



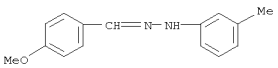
RN 100969-37-7 CAPLUS
CN 1,3-Benzodioxole-5-carboxaldehyde, 2-(2-methylphenyl)hydrazone (CA INDEX NAME)



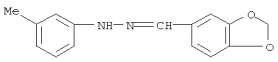
L16 ANSWER 3051 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



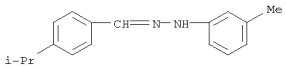
L16 ANSWER 3051 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)
RN 111032-47-4 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(3-methylphenyl)hydrazone (CA INDEX NAME)



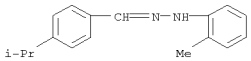
RN 390408-51-2 CAPLUS
CN 1,3-Benzodioxole-5-carboxaldehyde, 2-(3-methylphenyl)hydrazone (CA INDEX NAME)



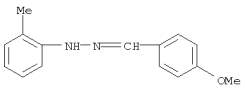
RN 390427-11-9 CAPLUS
CN Benzaldehyde, 4-(1-methylethyl)-, 2-(3-methylphenyl)hydrazone (CA INDEX NAME)



RN 479607-77-7 CAPLUS
CN Benzaldehyde, 4-(1-methylethyl)-, 2-(2-methylphenyl)hydrazone (CA INDEX NAME)



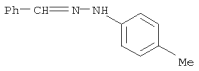
RN 745056-86-4 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(2-methylphenyl)hydrazone (CA INDEX NAME)



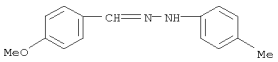
RN 861536-32-5 CAPLUS
CN 2-Propenal, 3-phenyl-, 2-(3-methylphenyl)hydrazone (CA INDEX NAME)

L16 ANSWER 3051 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

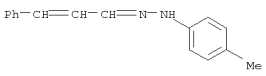
L16 ANSWER 3052 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1910:12698 CAPLUS
DOCUMENT NUMBER: 4:12698
ORIGINAL REFERENCE NO.: 4:2296h-i,2297a-b
TITLE: New Phototropic Substances
AUTHOR(S): Padoa, M.; Graziani, F.
CORPORATE SOURCE: Lab. Chim. Gen., R. Univ. Bologna
SOURCE: Atti della Accademia Nazionale dei Lincei, Classe di Scienze Fisiche, Matematiche e Naturali, Rendiconti (1910), 18(II), 269
CODEN: AANLAW; ISSN: 0001-4435
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB The following α-naphthylhydrazones are non-phototropic. Benzaldehyde α-naphthylhydrazone; anisalaldehyde α-naphthylhydrazone, MeOC6H4CH : NNHC10H7, yellowish needles, m. 176°; cuminaldehyde α-naphthylhydrazone, Me2CHC6H4CH : NNHC10H7, small needles depositing in voluminous clusters, m. 159°; cinnamaldehyde α-naphthylhydrazone, PhCH : CHCH : NNHC10H7, yellow crystalline powder, m. 165°. The following are phototropic; the temps. at which the colored products are decolorized are given: Benzaldehyde β-naphthylhydrazone 120°; anisaldehyde β-nphthylhydrazone, m. 176° (?), 130°; cuminaldehyde β-naphthylhydrazone, light, white leaflets, m. 184°, 110-5°; cinnamaldehyde β-naphthylhydrazone, m. 193°, 105°; benzaldehyde p-tolyhydrazone, m. 125°, 105-10°. Anisaldehyde p-tolyhydrazone, MeOC6H4CH : NNHC6H4Me, m. 136°, is not phototropic. Cinnamaldehyde p-tolyhydrazone, light, voluminous needles, m. 155°, strongly phototropic, decolorized at 140-5°; cuminaldehyde p-tolyhydrazone, m. 137°, 80°; piperonaldehyde p-tolyhydrazone, m. 123°, 110-5°. p-Tolualdehyde p-tolylhydrazone, m. 151° and vanillin p-tolyhydrazone, m. 127°, are not phototropic.
IT 1858-99-7 2829-30-3 88254-47-1
389874-94-6
RL: PRP (Properties)
(New Phototropic Substances)
RN 1858-99-7 CAPLUS
CN Benzaldehyde, 2-(4-methylphenyl)hydrazone (CA INDEX NAME)



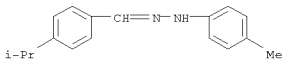
RN 2829-30-3 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-(4-methylphenyl)hydrazone (CA INDEX NAME)



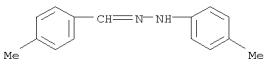
RN 88254-47-1 CAPLUS
CN 2-Propenal, 3-phenyl-, 2-(4-methylphenyl)hydrazone (CA INDEX NAME)



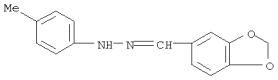
RN 389874-94-6 CAPLUS
CN Benzaldehyde, 4-(1-methylethyl)-, 2-(4-methylphenyl)hydrazone (CA INDEX NAME)



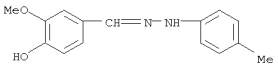
IT 65452-76-8P, p-Tolualdehyde, p-tolylhydrazone 389874-57-1P , Piperonal, p-tolylhydrazone 389874-68-4P, Vanillin, p-tolylhydrazone
RL: PREP (Preparation)
(preparation of)
RN 65452-76-8 CAPLUS
CN Benzaldehyde, 4-methyl-, 2-(4-methylphenyl)hydrazone (CA INDEX NAME)



RN 389874-57-1 CAPLUS
CN 1,3-Benzodioxole-5-carboxaldehyde, 2-(4-methylphenyl)hydrazone (CA INDEX NAME)



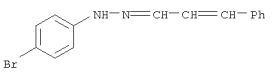
RN 389874-68-4 CAPLUS
CN Benzaldehyde, 4-hydroxy-3-methoxy-, 2-(4-methylphenyl)hydrazone (CA INDEX NAME)



ACCESSION NUMBER: 1910:3479 CAPLUS
DOCUMENT NUMBER: 4:3479
ORIGINAL REFERENCE NO.: 4:586a-i,587a-g
TITLE: Influence of Constitution on the Transformation into Pyrazolines of the Phenylhydrazones of Unsaturated Compounds
AUTHOR(S): Auwers, K.; Voss, H.
CORPORATE SOURCE: Chem. Inst., Greifswald
SOURCE: Berichte der Deutschen Chemischen Gesellschaft (1910),
42, 4411-27
CODEN: BDCGAS; ISSN: 0365-9496
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
GI For diagram(s), see printed CA Issue.
AB cf. C. A., 3, 545. The phenylhydrazones described below were prepared, whenever possible, in alc. solution, so as to avoid the transforming influence of AcOH. The identification of the compounds as pyrazolines or phenylhydrazones was accomplished by means of 1 or more of the following methods : (1) Knorr's pyrazoline reaction-the instant production of an intense bluish violet color with concentrate H2SO4 and a little FeCl3 or NaNO2.
Occasionally the color is greenish blue. The phenylhydrazones dissolve relatively slowly in the acid and give yellow to orange red colors. (2) Treatment with Na-Hg, in presence of absolute alc. and glacial AcOH, at 40-50°. The phenylhydrazones are reduced to PhNH2, but the pyrazolines are not changed. (3) Boiling during 1 h. with glacial AcOH transforms the phenylhydrazones into pyrazolines, which are themselves unchanged by this treatment. Cinnamicphenylhydrazone, when boiled with glacial AcOH, gives 1,5-diphenylpyrazoline, formula (I) below. This was the method of transformation adopted in the case of the other phenylhydrazone derivatives. Cinnamic - p - bromophenylhydrazone, PhCH : CHCH : NNHC6H4Br; yellow needles, m. 139-40°. It gives 1-p-bromophenyl-5-phenylpyrazoline; long, lustrous, yellow needles, m. about 120°. Cinnamic-p-nitrophenylhydrazone failed to yield a pyrazoline derivative Benzalacetonephenylhydrazone, PhCH : CHCMe : NNHPh, gives 3-methyl-1,5-diphenylpyrazoline. α-Benzalmethyl ethyl ketone, PhCH : CHCOEt, m. 38-9°; b11 130-4°. Phenylhydrazone, m. 104-5°. It gives an oily pyrazoline. γ-Benzalethyl methyl ketone, PhCH : CMeAc, b14 135-6°. Its phenylhydrazone yields 3,4-dimethyl-1,5-diphenylpyrazoline (II); broad, opaque needles, m. 82-3°. The product from α-benzalmethyl propyl ketophenylhydrazone, PhCH : CHC(C3H7) : NNHPh, appears to be a pyrazoline, but it could not be crystallized. α-Benzalmethyl isopropyl ketone, PhCH : CHCOCHMe2, from methyl isopropyl ketone and BzH, in presence of aqueous-alc. NaOH; yellow oil, b11 147°. On one occasion it gave what is probably a phenylhydrazone, m. 155°. In all subsequent experiments the product consisted of 3-isopropyl-1,5-diphenylpyrazoline; colorless needles, m. 88.5°. α-Benzalmethyl butyl ketone, PhCH : CHCOC4H9, prepared like the isopropyl compound; colorless crystals, m. 38-9°; b11 159-67°. Phenylhydrazone, yellow, opaque plates or thick needles, m. 97.5-8.5°. It forms an oily pyrazoline. α-Benzalmethyl tert. butyl ketone and H2NNHPh yield only 3-tert. butyl-1,5-diphenylpyrazoline; lustrous needles, m. 108-8.5°. α-Benzalmethyl nonyl ketophenylhydrazone, PhCH : CHC(C9H19) : NNHPh, long, soft, silky, interlaced needles, m.

76-7°. It gives a pyrazoline. Benzalacetophenone gives 1,3,5-triphenylpyrazoline directly with H2NNHPh, even at a low temp. o-Hydroxybenzalacetonephenylhydrazone gives 3-methyl-1-phenyl-5-o-hydroxyphenylpyrazoline. α,o-Hydroxybenzalmethyl ethyl ketone, HOC6H4CH : CHCOEt, was prepared from salicylic aldehyde and methyl ethyl ketone, in presence of aqueous NaOH (10%), at the ordinary temp., during 8 ds.; m. 118-9°, not 101°. It gives directly 3-ethyl-1-phenyl-5-o-hydroxyphenylpyrazoline; small, white needles, m. 134°. No phenylhydrazone of the ketone could be prepared. The compound described by Harries and Busse (Ber., 29, 376 (1896)) as "α,o-hydroxybenzalmethyl propyl ketophenylhydrazine," HOC6H4CH : CHC(C3H7) : NNHPh, is really 3-propyl-1-phenyl-5-o-hydroxyphenylpyrazoline. Prolonged boiling with glacial AcOH appears to cause its oxidation to the corresponding pyrazole; m. 98-9°. It regenerates the pyrazoline when reduced by means of alc. and Na. o-Hydroxybenzalacetophenone, HOC6H4CH : CHBz, contrary to the statements of Harries and Busse (loc. cit.), also fails to form a phenylhydrazone. Their product was really 1,3-diphenyl-5-o-hydroxyphenylpyrazoline. Benzoyl derivative, colorless crystals, m. 172°. α-o-Methoxybenzalmethyl ethyl ketone, MeOC6H4CH : CHCOEt, from the hydroxy deriv. (see above) and Me2SO4; yellow oil. With H2NNHPh it gives only 3-methyl-1-phenyl-5-o-methoxyphenylpyrazoline; lustrous, yellow needles, m. 87-8°. p-Nitrobenzalacetone phenylhydrazone, O2NC6H4CH : CHCMe : NNHPh, red crystals, m. 195-6°. It gives 3-methyl-1-phenyl-5-p-nitrophenylpyrazoline; slender, golden yellow needles, m. 112-3°. m-Nitrobenzalacetophenonephenylhydrazine, O2NC6H4CH : CHCPh : NNHPh, prepared in presence of CHCl3 + AcOH; small, yellow crystals, m. 101-3°. It gives a green color with cone. H2SO4 and FeCl3 and yields PhNH2 when reduced. 1,3-Diphenyl-5-m-nitrophenylpyrazoline, from the preceding compound; slender, brownish yellow needles, m. 122-3°. p-Nitrobenzalacetophenonephenylhydrazone, lustrous, red, slender, interlaced needles, m. 138-9°. It gives a green color with conc. H2SO4 and FeCl3. 1,3-Diphenyl-5-p-nitrophenylpyrazoline, from the preceding compound; slender, brownish yellow needles, m. 113-4°. Its color with conc. H2SO4 and FeCl3 is bluish violet. Furfuralacetonephenylhydrazone, C4H3OCH : CHCMe: NNHPh, opaque, yellow needles, m. 131-2°. It gives 3-methyl-1-phenyl-5-furylpyrazoline, large white, opaque needles, m. 102-3°. It exhibits the ordinary pyrazoline reactions and is readily volatile with steam. Cinnamyleneacetophenonephenylhydrazone, PhCH : CHCH : CHCPh : NNHPh, m. 156-8°, previously softening, not 125-6° as stated by Sorge (Ber., 35, 1066 (1902)). It gives PhNH2 when reduced and does not exhibit the pyrazoline reaction. Boiling with glacial AcOH transforms it into a compound, which fails to show Knorr's reaction and could not be reduced to PhNH2. The above results demonstrate that compounds of the type, RCH : CHCR' : NNHPh, transform into pyrazolines with difficulty when R' is a primary aliphatic residue CH2C, but when R' is an aromatic radicle, or a secondary or tertiary alkyl, the change to pyrazoline is immediate. The transformation is facilitated by the introduction into the benzylidene nucleus of OH or OMe, in the o-position; NO2 has the opposite effect, both in the benzylidene nucleus and also in the Ph of the : NNPh group (m- or p-positions). On the basis of these results it is stated that the "phenylhydrazones" of o-propyl cumaryl and o-phenyl cumaryl ketones and also those of p-toluylideneacetophenone and of

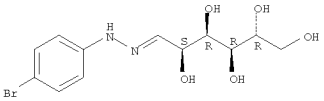
L16 ANSWER 3053 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)
p,p-dichlorobenzalacetophenone are really pyrazoline derivs. (cf. Harries
and Busse (Ber., 29, 376, 378 (1896)); Hanzlik and Bianchi (Ber., 32, 2284
(1899)); Straus and Ackermann (C. A., 3, 2308)).
IT 872820-75-2P, Cinnamaldehyde, p-bromophenylhydrazone
RL: PREP (Preparation)
(preparation of)
RN 872820-75-2 CAPLUS
CN 2-Propenal, 3-phenyl-, 2-(4-bromophenyl)hydrazone (CA INDEX NAME)



L16 ANSWER 3054 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1909:13352 CAPLUS
DOCUMENT NUMBER: 3:13352
ORIGINAL REFERENCE NO.: 3:2439f-i,2440a-d
TITLE: Hydrazones of Sugar and Their Acetates
AUTHOR(S): Hofmann, Adolf
CORPORATE SOURCE: Tech. Hochsch., Hannover
SOURCE: Justus Liebigs Annalen der Chemie (1909), 366, 277-323
CODEN: JLACBF; ISSN: 0075-4617
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB Glucose-p-bromophenylhydrazone, C12H17O5N2Br, long thin prisms, m. 164-6°, foaming at 170°. Exhibits birotation, [α]D -43.67° to + 18.94°. The indicated dextro isomer could not be isolated. Glucose-α-benzylphenylhydrazone shows slight birotation, [α]D -46.33° to 48.16°. Sym. acetylphenylhydrazine does not act upon glucose. Mannosephenylhydrazone, m. 199-201°, exhibits no birotation. Galactosephenylhydrazone, m. 160-2°, gives in H2O, [α]D -21.4°, but in pyridine, [α]D -20.70α to -9.23° at 24 h. Pyridine compound, C12H18O5N2.C5H5N, leaves, m. 156-8° (decompose), unstable in air. In H2O, [α]D -17-91°, no birotation. In pyridine, [α]D -17.39° to -7.99° at 24 hr.
Galactose-p-bromophenylhydrazone, C12H17O5N2Br, needles, m. 166-7°, unstable in solution. Galactose-α-benzylphenylhydrazone, prepared in EtOH, gives, m. 157-8°, [α]D -14.26°. Pyridine compound, m. 110-2°, [α]D -11.35β.
Fructosephenylhydrazone could not be prepared. Phenylhydrazine compound, C12H18O5N2.C6H8N2, light yellow needles and prisms, m. 140-50° (decompose). In H2O, [α] -4.7°; in EtOH, [α]D -6.37° to -3.7°; in C5H5N, [α]D -8.30° to -3.44° in 96 h. Pyridine compound, C12H18O5N2.C5H5N, white crystals, m. 98-100°; in C5H5N, [α]D -8.61° to -3.36° in 96 h. Fructose gave no hydrazone with p-BrC6H4NHNH2, nor with asym. Benzylphenylhydrazine. Maltose yielded sirupy products with PhNHNH2 and p-BrC6H4NHNH2, and does not react with asym. PhCH2C6H4NHNH2. Lactosephenylhydrazone was obtained only as a sirup. Lactose does not react with p-BrC6H4NHNH2. Lactose-α-benzylphenylhydrazone, decompose 158-9° (128° Lobry de Bruyn and Ekenstein), 170-4°, recryst. from absolute EtOH, 164-6°, recryst. from dilute EtOH. In pyridine, [α]D -36.1°, -34.7° and the acetates of the hydrazones do not show birotation. α-Glucosephenylhydrazone-acetate was prepared by treating 2 g. glucosephenylhydrazone, m. 159-60°, in 10 g. pyridine with 6 g. Ac2O, cooling with ice. Long snow-white needles, m. 152-3°, C22H28N2O10 or C24H30O11N2. In pyridine, [α]D -11.97°. If first heated 2 1/4 hs. in pyridine at 80-85° before acetylation, the acetate m. 50-70° (decompose), [α]D -100.91°. Acetate of β-glucosephenylhydrazone, [α]D -100.15°. Acetylation after the hydrazone reached constant rotation gave an amorphous acetate, [α]D 100.34°.
Glucose-α-benzylphenylhydrazonepentacetate, C29H34O10N3, light yellow, amorphous, m. 60-80°. In C5H5N, [α]D -112.48°. Mannosephenylhydrazone acetate, C22H22O10N2 or C24H30O11N2, red-brown, amorphous, m. 60-70°. Solutions darken rapidly. Galactosephenylhydrazone acetate, C22H28O10N2 or C24H30O11N2, leaves, m. 137-9°; in C5H2N, [α]D -44.06° to -42.35°. Pyridine compound, [°]D 38.59° to 37.27°. Galactosebenzylphenylhydrazonepentacetate, C20H34O10N2, prisms, m. 129-30°, in C5H5N, [α]D -93.21°. Pyridine

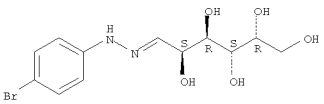
L16 ANSWER 3054 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)
compound, leaves, m. 105-10°, in C5H5N, [α]D -81-85α.
Fructosephenylhydrazone-acetate, amorphous, gave dark colored solutions.
Lactosebenzylphenylhydrazone-octacetate, C41H50O18N3, amorphous, m. 60-80° (decomp.), in C5H5N, [α]D -62.22°.
Benzylidenephenylhydrazone could not be acetylated.
IT 18841-82-2P 67912-11-2P
RL: SPN (Synthetic preparation); PRP (Properties); PREP (Preparation)
(Hydrazones of Sugar and Their Acetates)
RN 18841-82-2 CAPLUS
CN D-Glucose, (4-bromophenyl)hydrazone (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



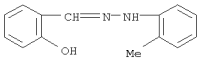
RN 67912-11-2 CAPLUS
CN D-Galactose, (4-bromophenyl)hydrazone (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

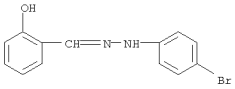


L16 ANSWER 3055 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1909:10733 CAPLUS
DOCUMENT NUMBER: 3:10733
ORIGINAL REFERENCE NO.: 3:1987i,1988a-h
TITLE: Migration of Acid Residues in the Phenylhydrazones of Acylated o-Hydroxy-aldehydes
AUTHOR(S): Auwers, K.
SOURCE: Justus Liebigs Annalen der Chemie (1909), 365, 314-42
CODEN: JLACBF; ISSN: 0075-4617
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB The free hydrazones are generally prepared by treating the aldehyde with the hydrazine in EtOH; the O-acetates by acetylation in cold pyrimidine, or less often by condensation of the acetylated aldehyde with the hydrazine; the diacetates by heating with Ac2O and AcONa at 120-30°; the N-acetates by partially saponifying these with alc. KOH. Rearrangement was accomplished by boiling with AcOH. Pyridine is also efficient, EtOH less so, and benzene, toluene and xylene not at all.
O-Acetate of salicylaldehydephenylhydrazone, C15H14O2N2, leaves, m. 141-2°. N-Acetate, 158-9°. O-Benzoate, C20H16O2N2, m. 148-9°. N-Benzoate, needles, m. 169°.
Salicylaldehyde-o-tolylhydrazone, C14H14ON2, yellow needles, m. 110-1°. O-Acetate, C16H16O2N2, needles, m. 111.5°. N-Acetate, rhombic crystals, m. 121-2°. O-Benzoate, C21H28O2N2, yellow needles, m. 157-8°. N-Benzoate, needles, m. 184°.
Salicylaldehyde-o-anisylhydrazone, C14H14O2N2, yellow needles, m. 93-4°. O-Acetate, C16H10O3N2, yellow needles, m. 112-3°. Diacetate, C18H18O4N2, white needles, m. 155-6°. N-Acetate, needles, m. 120°. O-Benzoate, C21H18O3N2, citron yellow needles, m. 157-8°. Dibenzoate, C28H22O4N2, needles, m. 178°. N-Benzoate, needles, m. 158-9°.
Salicylaldehyde-o-chlor-phenylhydrazone, m. 123°. O-Acetate, m. 105-6°. N-Acetate, m. 153-4°. O-Benzoate, C20H15O2N2Cl, needles, m. 164°. Salicylaldehyde-m-chlorphenylhydrazone, C12H11ON3Cl, brownish needles, m. 163-4°. O-Benzoate, C20H16O2N2Cl, citron yellow needles, m. 142-3°. N-Benzoate, m. 168-70°. Salicylaldehyde-p-chlorphenylhydrazone, C18H11ON2Cl, yellow leaves, m. 169-70°. O-Benzoate, C20H15O2N2Cl, needles, m. 176-7°. Dibenzoate, C27H19O3N2Cl, needles, m. 159°. N-Benzoate, needles, m. 166-7°.
Salicylaldehyde-o-bromphenylhydrazone, C13H11ON2Br, yellow, m. 111-2°. O-Acetate, C15H13O2N2Br, needles, m. 114°. N-Acetate, m. 142-3°. O-Benzoate, C20H18O2N2Br, leaves or needles, m. 164°. Salicylaldehyde-p-bromphenylhydrazone, m. 175.5°. O-Acetate, C15H13O2N2Br, rhombic leaves, m. 119-20°. Diacetate, C17H15O2N2Br, needles, m. 152°. N-Acetate, brown needles, m. 148-9°. O-Benzoate, C20H13O2N2Br, yellow needles, m. 186°. Dibenzoate, C27H19O2N2Br, needles, m. 156°. N-Benzoate, needles, m. 163-4°. Salicylaldehyde-o-nitrophenylhydrazone, m. 193°. O-Acetate, C13H18O4N3, red needles, m. 160°.
Salicylaldehyde-m-nitrophenylhydrazone, m. 197°. O-Acetate, C15H13O4N3, red needles, m. 165°. Diacetate, C17H13O5N3, leaves, m. 149-50°. N-Acetate (1), citron yellow needles, m. 164°, containing 0.5 or 1 H2O, (2) white felted needles, m. 162-3°, anhydrous. O-Benzoate, C20H18O4N3, long, yellow needles, m. 177°.
Salicylaldehyde-p-nitrophenylhydrazone, m. 225° or 227°. O-Acetate, C15H13O4N3.0.5C6H6, yellow needles, m. 185-6°, red needles from EtOH. Diacetate, C17H15O5N2, needles, m. 164.5°. O-Benzoate, C20H18O4N3, yellow needles, m. 207-8°.
Salicylaldehyde-o-cyanophenylhydrazone, C14H11ON3, yellow needles, m.

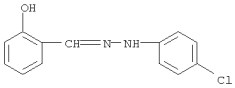
L16 ANSWER 3055 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)
163°. O-Benzoate, C21H15O2N2, yellow needles, m. 164-5°.
Salicylaldehyde-(vic)-m-xylylhydrazone, O-Benzoate, C22H20O2N2, yellow
needles, m. 100°. N-Benzoate, colorless needles, m. 179°.
Dibromosalicylaldehydephenylhydrazone, m. 148°. O-Acetate,
C15H12O2N2Br2, yellow prisms, m. 166-7°. Diacetate, C17H14O3N3Br2,
needles, m. 164-5°. Rossing gives 158°. N-Acetate,
needles, 188°. O-Benzoate, C20H14O2N2Br2, yellow prisms, m.
211-12°. N-Benzoate, white prisms, m. 174°.
o-Nitrosalicylaldehydephenyl-hydrazone-O-Benzoate, C20H18O4N3, brown
needles, m. 204-5°. N-Benzoate, yellow needles, m.
199-200°. p-Nitrosalicylaldehydephenylhydrazone. O-Benzoate, red
needles, m. 230°. N-Benzoate, white needles, m. 260°.
IT 74563-50-1P 291522-62-8P 380213-64-9P
380308-38-3P 393844-49-0P 750614-59-6P
RL: SPN (Synthetic preparation); PRP (Properties); PREP (Preparation)
(Migration of Acid Residues in the Phenylhydrazones of Acylated
o-Hydroxy-aldehydes)
RN 74563-50-1 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-(2-methylphenyl)hydrazone (CA INDEX NAME)



RN 291522-62-8 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-(4-bromophenyl)hydrazone (CA INDEX NAME)

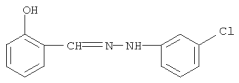


RN 380213-64-9 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-(4-chlorophenyl)hydrazone (CA INDEX NAME)

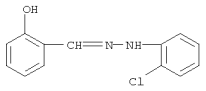


RN 380308-38-3 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-(3-chlorophenyl)hydrazone (CA INDEX NAME)

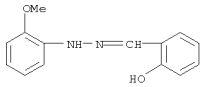
L16 ANSWER 3055 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



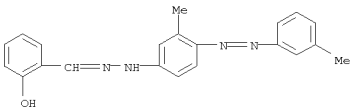
RN 393844-49-0 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-(2-chlorophenyl)hydrazone (CA INDEX NAME)



RN 750614-59-6 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-(2-methoxyphenyl)hydrazone (CA INDEX NAME)

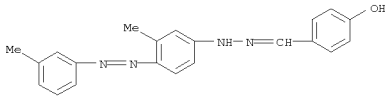


L16 ANSWER 3056 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1909:7495 CAPLUS
DOCUMENT NUMBER: 3:7495
ORIGINAL REFERENCE NO.: 3:1396f-i
TITLE: Acid Addition Products of
2,3'-Dimethylazobenzene-4-hydrazones
AUTHOR(S): Troger, J.; Puttkammer, G.
CORPORATE SOURCE: Braunschweig
SOURCE: Journal fuer Praktische Chemie (Leipzig) (1909), 78,
450-77
CODEN: JPCEAO; ISSN: 0021-8383
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB These salts were prepared either by the action of
2,3'-dimethylazobenzene-4-hydrazone sulphonic acid with aldehydes and
ketones in the presence of mineral acids or by treatment of the
respective
free hydrazones with the mineral acids. Most of the salts described in
this paper have been mentioned in the previous abstract.
o-Hydroxybenzylidene-2,3'-dimethylazobenzene-4-hydrazone hydrochloride,
C7H7N: NC7H6NHN:CHC6H4OH.HCl, small dark green needles; HBr, brown-black
needles; H2SO4, dark green needles.
p-Hydroxybenzylidene-2,3'-dimethylazobenzene-4-hydrazone hydrochloride,
blue-green needles; HBr, green needles; H2SO4, dark blue needles.
Benzylidene-2,3'-dimethylazobenzene-4-hydrazone hydrochloride, dark
violet
needles; HBr, black needles; H2SO4, blue crystals.
m-Nitrobenzylidene-2,3'-dimethylazobenzene-4-hydrazone hydrochloride,
dark
green needles; HBr, red violet needles; sulphate, green crystals.
p-Nitrobenzylidene-2,3'-dimethylazobenzene-4-hydrazone, blue-violet
needles; H2SO4, dark green needles.
p-Methoxybenzylidene-2,3'-dimethylazobenzene-4-hydrazone hydrochloride,
blue needles; HBr, blue crystals; H2SO4, steel-blue needles.
Cinnamylidene-2,3'-dimethylazobenzene-4-hydrazone hydrochloride,
green-blue needles; HBr, brown-black needles H2SO4, blue-green; HI, dark
blue powder.
IT 859960-14-8, Azobenzene, 2,3'-dimethyl-4-(salicylalhydrazino)-
872266-30-3, Azobenzene, 4-(p-hydroxybenzalhydrazino)-2,3'-
dimethyl-
(and derivs.)
RN 859960-14-8 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-[3-methyl-4-[2-(3-
methylphenyl)diazenyl]phenyl]hydrazone (CA INDEX NAME)

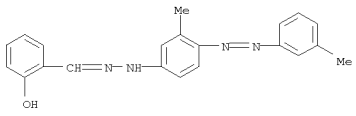


RN 872266-30-3 CAPLUS
CN Benzaldehyde, 4-hydroxy-, 2-[3-methyl-4-[2-(3-
methylphenyl)diazenyl]phenyl]hydrazone (CA INDEX NAME)

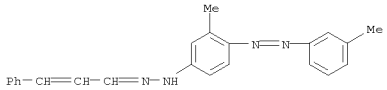
L16 ANSWER 3056 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



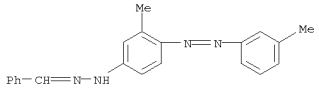
IT 859960-14-8, Salicylaldehyde, [4-(m-tolylazo)-m-tolyl]hydrazone
861528-10-1, Azobenzene, 4-(cinnamalhydrazino)-2,3'-dimethyl-
861528-18-9, Azobenzene, 4-(benzalhydrazino)-2,3'-dimethyl-
861528-20-3, Azobenzene, 4-(anisalhydrazino)-2,3'-dimethyl-
861528-96-3, Azobenzene, 2,3'-dimethyl-4-[m-nitrobenzalhydrazino]-
861544-96-9, Benzaldehyde, p-nitro-,
[4-(m-tolylazo)-m-tolyl]hydrazone
(derivs.)
RN 859960-14-8 CAPLUS
CN Benzaldehyde, 2-hydroxy-, 2-[3-methyl-4-[2-(3-
methylphenyl)diazenyl]phenyl]hydrazone (CA INDEX NAME)



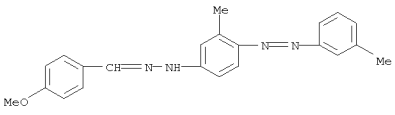
RN 861528-10-1 CAPLUS
CN 2-Propenal, 3-phenyl-, 2-[3-methyl-4-[2-(3-
methylphenyl)diazenyl]phenyl]hydrazone (CA INDEX NAME)



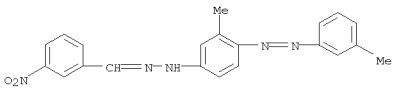
RN 861528-18-9 CAPLUS
CN Benzaldehyde, 2-[3-methyl-4-[2-(3-methylphenyl)diazenyl]phenyl]hydrazone
(CA INDEX NAME)



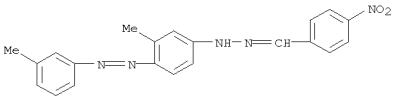
L16 ANSWER 3056 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)
RN 861528-20-3 CAPLUS
CN Benzaldehyde, 4-methoxy-, 2-[3-methyl-4-[2-(3-methylphenyl)diazenyl]phenyl]hydrazone (CA INDEX NAME)



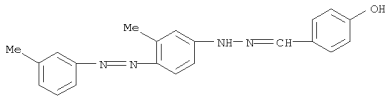
RN 861528-96-3 CAPLUS
CN Benzaldehyde, 3-nitro-, 2-[3-methyl-4-[2-(3-methylphenyl)diazenyl]phenyl]hydrazone (CA INDEX NAME)



RN 861544-96-9 CAPLUS
CN Benzaldehyde, 4-nitro-, 2-[3-methyl-4-[2-(3-methylphenyl)diazenyl]phenyl]hydrazone (CA INDEX NAME)

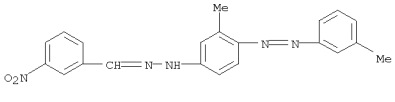


L16 ANSWER 3057 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1909:7494 CAPLUS
DOCUMENT NUMBER: 3:7494
ORIGINAL REFERENCE NO.: 3:1396b-f
TITLE: Condensations of 2,3'-Dimethylazobenzene-4-hydrazinesulphonic Acid with Aldehydes and Ketones
AUTHOR(S): Troger, J.; Puttkammer, G.
CORPORATE SOURCE: Braunschweig
SOURCE: Journal fuer Praktische Chemie (Leipzig) (1909), 78, 437-49
CODEN: JPCEAO; ISSN: 0021-8383
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB With p-tolylaldehyde, 2,3'-dimethylazobenzene-4- hydrazinesulphonic acid yielded p-tolylidene-2,3'-dimethylazobenzene-4-hydrazone, C7H7N:NC7H6NHN:CHC6H4Me, leaflets, m. 180-1°; hydrochloride, C22H22N4.HCl, sandy, violet powder. With cuminole and EtOH.HCl, isopropylbenzylidene-2,3'-dimethylazobenzene-4-hydrazone, C24H26N4, brown crystals, m. 137°; HCl, red-violet crystals; HBr, black powder; H2SO4, green crystals. m-Chlorbenzylidine-2,3'-dimethylazobenzene-4-hydrazone, light yellow fibrous crystals, m. 140°; HCl, violet needles; H2SO4, bronze-green powder. m-Brombenzylidene-2,3'-dimethylazobenzene-4-hydrazone, orange leaflets, m. 137°; HBr, violet needles; H2SO4, bronze-green needles. p-Hydroxybenzylidene-2,3'-dimethylazobenzene-4-hydrazone, brown leaflets, m. 202-3°; HCl, blue-green needles; HBr, green needles; H2SO4, dark blue needles. p-Dimethylaminobenzylidene-2,3'-dimethylazobenzene-4-hydrazone, orange powder, m. and decompose 154-5°; HBr, brown-black mass. p-Aminobenzylidene-2,3'-dimethylazobenzene-4-hydrazone, orange powder, m. and decompose 188-90°; HCl, dark green powder. Benzophenone-2,3'-dimethylazobenzene-4-hydrazone, orange-red prisms, m. 137°. Benzyl-2,3'-dimethylazobenzene-4-hydrazone; orange tablets, m. 141-2°. Acetone-2,3-dimethylazobenzene-4-hydrazone, brown crystals, m. 125°; HCl brown-red powder.
IT 872266-30-3, Azobenzene, 4-(p-hydroxybenzalhydrazino)-2,3'-dimethyl-
(and derivs.)
RN 872266-30-3 CAPLUS
CN Benzaldehyde, 4-hydroxy-, 2-[3-methyl-4-[2-(3-methylphenyl)diazenyl]phenyl]hydrazone (CA INDEX NAME)

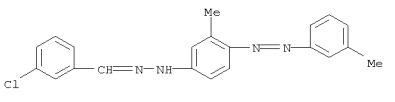


IT 861528-96-3, Benzaldehyde, m-nitro-, [4-(m-tolylazo)-m-tolyl]hydrazone
(derivs.)
RN 861528-96-3 CAPLUS
CN Benzaldehyde, 3-nitro-, 2-[3-methyl-4-[2-(3-methylphenyl)diazenyl]phenyl]hydrazone (CA INDEX NAME)

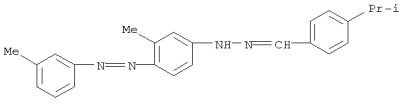
L16 ANSWER 3057 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



IT 861231-82-5P, Azobenzene, 4-(m-chlorobenzalhydrazino)-2,3'-dimethyl- 861527-95-9P, Azobenzene, 4-(p-isopropylbenzalhydrazino)-2,3'-dimethyl-, -HBr 861527-97-1P, Cumaldehyde, [4-(m-tolylazo)-m-tolyl]hydrazone 861528-02-1P, Azobenzene, 2,3'-dimethyl-4-(p-methylbenzalhydrazino)-, -HCl 861528-04-3P, Azobenzene, 2,3'-dimethyl-4-(p-methylbenzalhydrazino)- 861528-12-3P, Azobenzene, 4-(m-chlorobenzalhydrazino)-2,3'-dimethyl-, -HCl 861528-14-5P, Benzaldehyde, m-bromo-, [4-(m-tolylazo)-m-tolyl]hydrazone 861528-28-1P, Azobenzene, 4-(p-aminobenzalhydrazino)-2,3'-dimethyl-, -HCl 861528-30-5P, Benzaldehyde, p-amino-, [4-(m-tolylazo)-m-tolyl]hydrazone 861604-31-1P, Benzaldehyde, p-(dimethylamino)-, [4-(m-tolylazo)-m-tolyl]hydrazone 861607-28-5P, Azobenzene, 2,3'-dimethyl-4-(p-dimethylaminobenzalhydrazino)-, -HBr 861607-33-2P, Azobenzene, 4-(m-bromobenzalhydrazino)-2,3'-dimethyl-, -HBr
RL: PREP (Preparation)
(preparation of)
RN 861231-82-5 CAPLUS
CN Benzaldehyde, 3-chloro-, 2-[3-methyl-4-[2-(3-methylphenyl)diazenyl]phenyl]hydrazone (CA INDEX NAME)



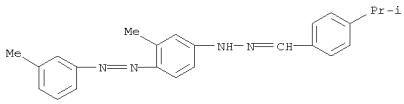
RN 861527-95-9 CAPLUS
CN Benzaldehyde, 4-(1-methylethyl)-, 2-[3-methyl-4-[2-(3-methylphenyl)diazenyl]phenyl]hydrazone, hydrobromide (1:1) (CA INDEX NAME)



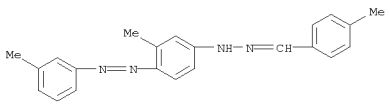
● HBr

L16 ANSWER 3057 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

RN 861527-97-1 CAPLUS
CN Benzaldehyde, 4-(1-methylethyl)-, 2-[3-methyl-4-[2-(3-methylphenyl)diazenyl]phenyl]hydrazone (CA INDEX NAME)

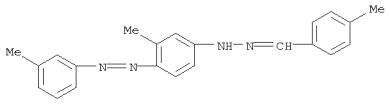


RN 861528-02-1 CAPLUS
CN Benzaldehyde, 4-methyl-, 2-[3-methyl-4-[2-(3-methylphenyl)diazenyl]phenyl]hydrazone, hydrochloride (1:1) (CA INDEX NAME)



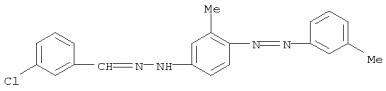
● HCl

RN 861528-04-3 CAPLUS
CN Benzaldehyde, 4-methyl-, 2-[3-methyl-4-[2-(3-methylphenyl)diazenyl]phenyl]hydrazone (CA INDEX NAME)



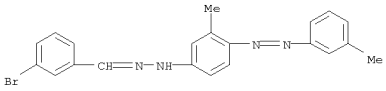
RN 861528-12-3 CAPLUS
CN Benzaldehyde, 3-chloro-, 2-[3-methyl-4-[2-(3-methylphenyl)diazenyl]phenyl]hydrazone, hydrochloride (1:1) (CA INDEX NAME)

L16 ANSWER 3057 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

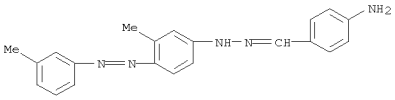


● HCl

RN 861528-14-5 CAPLUS
CN Benzaldehyde, 3-bromo-, 2-[3-methyl-4-[2-(3-methylphenyl)diazenyl]phenyl]hydrazone (CA INDEX NAME)

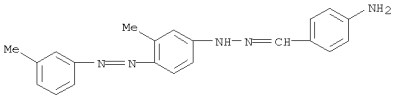


RN 861528-28-1 CAPLUS
CN Benzaldehyde, 4-amino-, 2-[3-methyl-4-[2-(3-methylphenyl)diazenyl]phenyl]hydrazone, hydrochloride (1:1) (CA INDEX NAME)



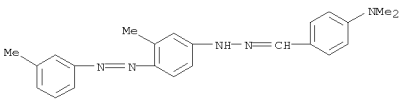
● HCl

RN 861528-30-5 CAPLUS
CN Benzaldehyde, 4-amino-, 2-[3-methyl-4-[2-(3-methylphenyl)diazenyl]phenyl]hydrazone (CA INDEX NAME)

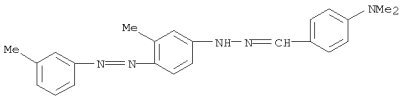


L16 ANSWER 3057 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

RN 861604-31-1 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, 2-[3-methyl-4-[2-(3-methylphenyl)diazenyl]phenyl]hydrazone (CA INDEX NAME)

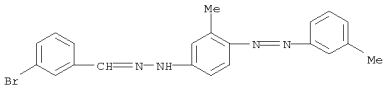


RN 861607-28-5 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, 2-[3-methyl-4-[2-(3-methylphenyl)diazenyl]phenyl]hydrazone, hydrobromide (1:1) (CA INDEX NAME)



● HBr

RN 861607-33-2 CAPLUS
CN Benzaldehyde, 3-bromo-, 2-[3-methyl-4-[2-(3-methylphenyl)diazenyl]phenyl]hydrazone, hydrobromide (1:1) (CA INDEX NAME)



● HBr

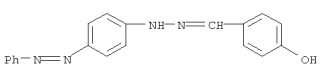
L16 ANSWER 3058 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1909:5361 CAPLUS
DOCUMENT NUMBER: 3:5361
ORIGINAL REFERENCE NO.: 3:1006b-e
TITLE: Azobenzene-p-hydrazinesulphonic Acid
AUTHOR(S): Troger, J.; Muller, O.
CORPORATE SOURCE: Braunschweig
SOURCE: Journal fuer Praktische Chemie (Leipzig) (1909), 78, 369-83
CODEN: JPCEAO; ISSN: 0021-8383
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB Azobenzene-p-hydrazinesulphonic acid, PhN2 C6H4NHNHSO3H (Ibid., 68, 297; 72, 511), prepared from diazotized PhNH2 and SO2, yielded with EtOH.HCl and p-tolylaldehyde, p-tolylidineazobenzene-p-hydrazone, PhN2C6H4NHN: CHC6H4Me, yellow or orange needles, m. 178°. Cuminylidineazo-benzene-p-hydrazone, C22H22N4, yellow-red needles, m. 144-5°. m-Chlorbenzylidene-azobenzene-p-hydrazone, C19H15N4Cl, golden yellow glistening leaflets, 160.5°. m-Brombenzylideneazobenzene-p-hydrazone, golden yellow leaflets, m. 173°. p-Aminobenzylideneazobenzene-p-hydrazone, C19H17N5, red-brown leaflets, darkens at 136°, m. and decompose 180.5°. p-Dimethylaminobenzylideneazobenzene-p-hydrazone, C21H21N5, red needles, m. 185.5°. p-Hydroxybenzylideneazobenzene-p-hydrazone, C19H16N4O, red needles, m. 196°. Furfurylideneazobenzene-p-hydrazone, C17H14N4O, red-brown leaf-lets, m. 133°. Benzophenoneazobenzene-p-hydrazone, PhN2C6H4NHN: CPh2, red-brown leaflets, m. 144°. Benzilazobenzene-p-hydrazone, C38H30N8, orange-red needles, m. 184-5°. A number of salts of the above compounds was prepared; two are now reported: m-brombenzylideneazobenzene-4-hydrazonesulphate, C19H15N4Br.H2SO4, steel blue needles; benzylideneazobenzenehydrazonze chloride, C19H16N4.HCl, black powder.

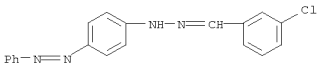
IT 860679-93-2P, Benzaldehyde, p-hydroxy-, (p-phenylazophenyl)hydrazone 861528-63-4P, Benzaldehyde, m-chloro-, (p-phenylazophenyl)hydrazone 861528-68-9P, Benzaldehyde, m-bromo-, (p-phenylazophenyl)hydrazone 861541-46-0P, 2-Furaldehyde, (p-phenylazophenyl)hydrazone 861550-99-4P, Cumaldehyde, (p-phenylazophenyl)hydrazone 861604-39-9P, Benzaldehyde, p-(dimethylamino)-, (p-phenylazophenyl)hydrazone 861605-71-2P, Benzaldehyde, p-amino-, (p-phenylazophenyl)hydrazone 866998-10-9P, p-Tolualdehyde, (p-phenylazophenyl)hydrazone
RL: PREP (Preparation)
(preparation of)

RN 860679-93-2 CAPLUS
CN Benzaldehyde, 4-hydroxy-, 2-[4-(2-phenyldiazenyl)phenyl]hydrazone (CA INDEX NAME)

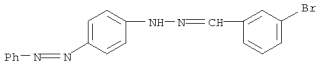


RN 861528-63-4 CAPLUS
CN Benzaldehyde, 3-chloro-, 2-[4-(2-phenyldiazenyl)phenyl]hydrazone (CA INDEX NAME)

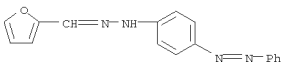
L16 ANSWER 3058 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



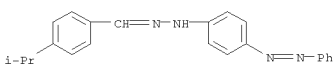
RN 861528-68-9 CAPLUS
CN Benzaldehyde, 3-bromo-, 2-[4-(2-phenyldiazenyl)phenyl]hydrazone (CA INDEX NAME)



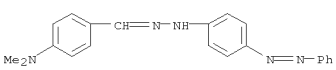
RN 861541-46-0 CAPLUS
CN 2-Furancarboxaldehyde, 2-[4-(2-phenyldiazenyl)phenyl]hydrazone (CA INDEX NAME)



RN 861550-99-4 CAPLUS
CN Benzaldehyde, 4-(1-methylethyl)-, 2-[4-(2-phenyldiazenyl)phenyl]hydrazone (CA INDEX NAME)

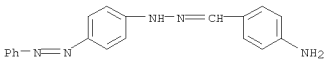


RN 861604-39-9 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, 2-[4-(2-phenyldiazenyl)phenyl]hydrazone (CA INDEX NAME)

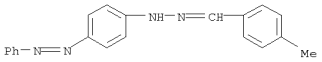


RN 861605-71-2 CAPLUS
CN Benzaldehyde, 4-amino-, 2-[4-(2-phenyldiazenyl)phenyl]hydrazone (CA INDEX NAME)

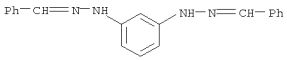
L16 ANSWER 3058 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



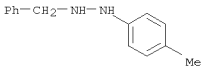
RN 866998-10-9 CAPLUS
CN Benzaldehyde, 4-methyl-, 2-[4-(2-phenyldiazenyl)phenyl]hydrazone (CA INDEX NAME)



L16 ANSWER 3059 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1909:2704 CAPLUS
DOCUMENT NUMBER: 3:2704
ORIGINAL REFERENCE NO.: 3:532b-e
TITLE: Replacement of Hydroxyl by the Hydrazine Group
AUTHOR(S): Franzen, Hartwig; Eichler, Th.
CORPORATE SOURCE: Heidelberg
SOURCE: Journal fuer Praktische Chemie (Leipzig) (1909), 78, 157-64
CODEN: JPCEAO; ISSN: 0021-8383
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB Studies of replacement of OH in the benzene ring by the hydrazine group are made in the same manner as with the hydroxynaphthalenes (vide C. A., 2, 664 and previous abstract). When resorcinol was treated first with N2H4.H2O and hydrazine sulphite and then with PhCHO it yielded dibenzylidene-1,3-phenylenedihydrazine, C20H18N4, gray-white substance, m. 247-8°. With N2H4H2O and pyroracemic acid, dipyroracemic-m-phenylenedihydrazine, C6H4(NHNCMeCO2H)2, m. 191°. Pyrocatechol and 1,3,4-toluylenediamine respectively gave with N2H4.H2O no condensed products. Hydroquinol gave hydroquinoldiammonium. Salicylic acid gave salicylic hydrazine, C7H10O3N2, m. 106°; heated at 205° this substance gave 3-keto-1,3-dihydroindazole (Ann., 212, 333); heated first at 184° then at 205° it gave the indazole and disalicylic hydrazide, (HOC6H4CONH)2, glistening white leaflets, m. 301°. o-Cresotinic acid and N2H4. H2O gave o-cresotinic hydrazine, colorless crystals, m. 133-4°; m-cresotinic hydrazine, light yellow crystals, m. 137-8°; p-cresotinic hydrazine, light yellow crystals, m. 130°. Heating this hydrazines to elevated temperatures yielded substances of higher meltting points (o, m. 181°; m, m. 162.5°; p, colors at 261°, m. 271-2°) and of N content between the corresponding cresotinic hydrazides and dihydroindazoles. β-Hydroxynaphthoic ester and N2H4.H2O yielded β-hydroxynaphthoic hydrazide, C11H10O2N2, glistening yellow-white leaflets, colors at 180°, m. and decomposes at 203-4°; benzylidene-β-hydroxynaphthoic hydrazide, C18H14O2N2, yellowish crystals, m. 224-5°.
IT 861377-06-2P, Hydrazine, α,α'-m-phenylenebis[β-benzal-
RL: PREP (Preparation)
(preparation of)
RN 861377-06-2 CAPLUS
CN Benzaldehyde, 2-[3-[2-(phenylmethylene)hydrazinyl]phenyl]hydrazone (CA INDEX NAME)

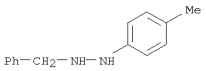


L16 ANSWER 3060 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1909:290 CAPLUS
DOCUMENT NUMBER: 3:290
ORIGINAL REFERENCE NO.: 3:73i,74a-c
TITLE: Reduction of Hydrazones in Alkali Solution
AUTHOR(S): Schlenk, Oskar
SOURCE: Journal fuer Praktische Chemie (Leipzig) (1909), 78, 49-63
CODEN: JPCEAO; ISSN: 0021-8383
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB Regulated reduction of aromatic aldehydrazones by 3% Na-Hg in alkali solution yielded symmetrical diaryl hydrazines. β-Benzylphenylhydrazine (Ber., 26, 679, 1022), rhombic crystals, m. 35° b. 290°; hydrochloride, leaflets, m. 205°; acid oxalate, m. 190°. With Na-Hg in AcOH, the hydrazine yielded PhNH2 and BzNH2. With ZnCl2 and Ac2O, β-benzylacetylphenylhydrazine, prisms, m. 91°; with HNO2, this yielded β-benzylacetyl-α-nitrosophenylhydrazine, yellow rhomboidal crystals, m. 84°; the latter with Zn and AcOH yielded PhNHNH2 and BzAcNH. β-Benzylbenzoylphenylhydrazine, silky needles, m. 121-2°; β-benzylbenzoyl-α-nitrosophenylhydrazine, qlistening yellow needles, m. 102°; β-benzyldibenzoylphenylhydrazine, prisms m. 131°; β-benzyl-p-tolylhydrazine, yellow oil, had b17 212; hydrochloride, C14H16N2HCl.H2O, long needles, m. 185°; β-benzylbenzoyl-p-tolylhydrazine white needles, m. 159°. With Na-Hg and AcOH, benzylideneacetone phenylhydrazone yielded 4-phenylbutyl-2-amine, Ph(CH2)2CH(NH2)Ac, colorless oil, b716 222° d. 0.9289; hydrochloride, needles, m. 144°; chlorplatinate, yellow leaflets, decomposes at 220°; sulphate, m. 255°; acid oxalate, m. 110°; neutral oxalate, m. 232°; benzoyl derivative, m. 107°. With HNO2 it yielded N2 and phenylbutylene. Benzilosazone gave by reduction tetraphenylaldine, diphenylhydroxyethylamine and diphenylethylenediamine, m. 107-10°.
IT 116530-54-2P, Hydrazine, α-benzyl-β-p-tolyl-
861596-93-2P, Hydrazine, α-benzyl-β-p-tolyl-, hydrochloride 861597-06-0P, Hydrazine, α-benzoyl-α-benzyl-β-p-tolyl-
RL: PREP (Preparation)
(preparation of)
RN 116530-54-2 CAPLUS
CN Hydrazine, 1-(4-methylphenyl)-2-(phenylmethyl)- (CA INDEX NAME)

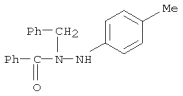


RN 861596-93-2 CAPLUS
CN Hydrazine, 1-(4-methylphenyl)-2-(phenylmethyl)-, hydrochloride (1:1) (CA INDEX NAME)

L16 ANSWER 3060 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



RN 861597-06-0 CAPLUS
CN Benzoic acid, 2-(4-methylphenyl)-1-(phenylmethyl)hydrazide (CA INDEX NAME)



L16 ANSWER 3061 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1907:7184 CAPLUS
DOCUMENT NUMBER: 1:7184
ORIGINAL REFERENCE NO.: 1:1719b-i,1720a-d
TITLE: The Action of Mono- and Dichloracetic Acid on Primary Hydrazines
AUTHOR(S): Busch, M.; Meussdorffer, Eduard
CORPORATE SOURCE: Chem. Lab. Erlangen
SOURCE: Journal fuer Praktische Chemie (Leipzig) (1907), 75, 121-41
CODEN: JPCEAO; ISSN: 0021-8383
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB (1) The reaction of phenylhydrazine with monochloracetic acid (Ber., 36, 3877) is extended to other arylhydrazines for the purpose of determining the conditions and groups that favor the condensation: RNHNH2 + ClCH2COOH = RN (NH2).CH2COOH + HCl. Hydrazines containing ortho-substituted nuclei, e. g. o-tolyl-, o-anisyl-, o-chlor-, α-naphthyl-, as well as β-naphthylhydrazines failed to give the reaction. Spacial interference by these ortho groups cannot be the explanation of their indifference, for a symmetrical xylylhydrazine condenses as easily as the unsymmetrical xylylhydrazine. (2) Primary hydrazines condense easily with dichloracetic acid (RNHNH2 + Cl2CHCOOH = RNHN :CHCOOH + 2HCl), forming about 75% yields of glyoxylic hydrazones. When treated with nitrous acids these glyoxylic acids yield azoformaldoximes, RN:NCH:NOH, (J. pr. Chem, 71, 366) in the case of o-chlor- and p-chlorphenyl-, p-nitrophenyl- and o-anisyl-, but not in the case of o-brom-, o-iodo-, and o-nitro-compounds.

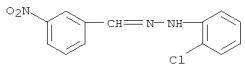
Experimental. (1) Monochloracetic acid, like monochloracetic ester (Ber., 36, 3880), when neutralized by KOH and treated with 2 mols. of phenylhydrazine, yielded the two isomeric α- and β-nitrogen hydrazinoacetic acids. o-Tolylhydrazine and monochloracetic acid yield small quantities of o-tolylhydrazinoacetic acid, yellow, white crystals, m. 140°; with m-nitrobenzaldehyde it gave m-nitrobenzylidene-o-tolylhydrazone, red needles m. 170°. The following compounds were obtained in a similar manner. m-Xylylhydrazinoacetic acid, C3H9N(NH2)CH2COOH, colorless, glistening leaflets, m. 155°, easily soluble in alcohol and acetic acid, difficultly soluble in ether, benzene and chloroform. m-Nitrobenzalxylhydrazinoacetic acid, C3H9N (:CHC6H4NO2)CH2COOH, lemon-yellow needles, m. 151°, easily soluble in ordinary organic solvents. p-Tolylhydrazinoacetic acid, light yellow needles, m. 166°. m-Nitrobenzal-p-tolylhydrazinoacetic acid, yellow needles, m. 191°. Paratolylhydrazinoacetic ethyl ester, white needles, m. 123°-25°. m-Nitrobenzal-p-tolylhydrazinoacetic ester, yellow needles, m. 123°-24°, easily soluble in alcohol, less soluble in boiling benzene and difficultly soluble in ether. Asymmetrical m-tolylhydrazinoacetic acid, white glistening leaflets, m 160°; its m-nitrobenzylidenehydrazone, glistening yellow prisms, m. 189°; its benzylidenehydrazone, green-yellow, glistening needles, m. 158°. Asymmetrical p-anisylhydrazinoacetic acid, CH3OC4H4N(NH2)CH2COOH, white leaflets m. 137°, difficultly soluble in acetic acid and insoluble in ether and benzene; its m-nitrobenzalhydrazone, yellow needles, m. 159°. Asymmetrical p-bromphenylhydrazinoacetic acid, BrC6H4N(NH2)CH2COOH, white needles, m. 138°; its

L16 ANSWER 3061 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

m-nitrobenzalhydrazone, yellow needles, m. 158°; the symmetrical acid, BrC4H4NH.NHCH2COOH, m. 150°. (2) Glyoxylphenylhydrazone, 137°. (Ann., 227, 353) and phenylazoformaldoxime, m. 94°. (Ber., 35, 1087; J. pr. Chem., 72, 380) were prepared with excellent yields. Glyoxyl-o-anisylhydrazone, CH2OC6H4NHN:CHCOOH, yellow-brown tablets, m. 115°, easily soluble in alcohol, more difficultly soluble in ether, boiling benzene and gasolene; its azoformaldoxime (J. pr. Chem., 71, 381), red-yellow needles m. 153-54°. o-Chlorphenylhydrazine was prepared; it gave with m-nitrobenzaldehyde, m-nitrobenzylidene-o-chlorphenylhydrazone, ClC6H4NHN :CHC6H4NO2, yellow needles, m. 150°, easily soluble in ether and benzene, difficultly soluble in alcohol. Glyoxyl-o-chlorphenylhydrazone, ClC6H4NHN:CHCOOH, lemon-yellow needles, m. 145°, easily soluble in alcohol and chloroform, less soluble in ether and benzene; its azoformaldoxime was prepared, red needles, m. 150° (J. pr. Chem., 71, 376). Glyoxyl-p-chlorphenylhydrazone, glistening red needles m. 142°, easily soluble in alcohol and ether, difficultly soluble in benzene, and insoluble in gasolene o-Bromphenylhydrazone, m. 148, was prepared by V. Meyer's method; with dichloracetic acid it yielded cis and trans isomeric glyoxyl-o-bromphenylhydrazones (J. pr. Chem., 71, 379), yellow needles, m. 160°, difficultly soluble in benzene, and white needles, m. 147°, easily soluble in benzene; neither form yielded an azoformaldoxime. o-Iodophenylhydrazine yields m-nitrobenzylidene-o-iodophenylhydrazone, yellow needles, m. 170°, easily soluble in chloroform, benzene and acetic acid, difficultly soluble in alcohol. Glyoxyl-o-iodophenylhydrazone, yellow leaflets, m. 156°, is indifferent toward nitrous acid; so also is the corresponding o-nitro-compound; the p-nitro-compound yields p-nitrophenylazoformaldoxime, red needles, m. 118°.

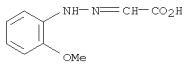
IT 393844-53-6P
RL: SPN (Synthetic preparation); PRP (Properties); PREP (Preparation)
(The Action of Mono- and Dichloracetic Acid on Primary Hydrazines)

RN 393844-53-6 CAPLUS
CN Benzaldehyde, 3-nitro-, 2-(2-chlorophenyl)hydrazone (CA INDEX NAME)



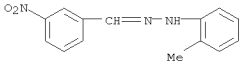
IT 63014-16-4P, Glyoxylic acid, o-anisylhydrazone
674349-66-7P, Benzaldehyde, m-nitro-, o-tolylhydrazone
861523-62-8P, Acetic acid, (β-p-bromophenylhydrazino)-
RL: PREP (Preparation)
(preparation of)

RN 63014-16-4 CAPLUS
CN Acetic acid, 2-[2-(2-methoxyphenyl)hydrazinylidene]- (CA INDEX NAME)

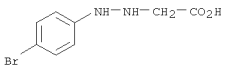


L16 ANSWER 3061 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

RN 674349-66-7 CAPLUS
CN Benzaldehyde, 3-nitro-, 2-(2-methylphenyl)hydrazone (CA INDEX NAME)



RN 861523-62-8 CAPLUS
CN Acetic acid, 2-[2-(4-bromophenyl)hydrazinyl]- (CA INDEX NAME)



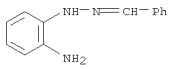
L16 ANSWER 3062 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1907:5819 CAPLUS
DOCUMENT NUMBER: 1:5819
ORIGINAL REFERENCE NO.: 1:1417a-c
TITLE: Benzylidene-c-aminophenylhydrazine
AUTHOR(S): Franzen, Hartwig
CORPORATE SOURCE: Chem. Inst., Univ. Heidelberg
SOURCE: Berichte der Deutschen Chemischen Gesellschaft (1907), 40, 909-12
CODEN: BDCGAS; ISSN: 0365-9496
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

GI For diagram(s), see printed CA Issue.

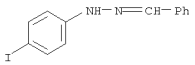
AB Benzylidene-o-aminophenylhydrazine H2NC7H10NHN:CHPh, is readily obtained by the action of alcoholic ammonia and sodium hyposulphite on benzylidene-o-nitrophenylhydrazine; slender, yellow needles, m. and evolves gas 142°. In alcoholic solution it immediately reduces yellow mercuric oxide. Chlorplatinic acid gives a yellow precipitate which quickly darkens, evolves gas and leaves metallic platinum. Hydrochloride, almost colorless, slender, interlaced needles, softens and darkens 100°-110°. It is decomposed by heating with water. Other salts have been prepared but not analyzed. When heated for a few minutes with 2% hydrochloric acid, or boiled for a short time with glacial acetic acid, the phenylhydrazine evolves ammonia and yields μ-phenylbenzimineazole, C6H4. Benzylidene-m-and p-nitrophenylhydrazine are also readily reduced to the amino compounds in the manner described above for the ortho derivative.

IT 53314-15-1P
RL: SPN (Synthetic preparation); PRP (Properties); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(Benzylidene-c-aminophenylhydrazine)

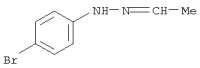
RN 53314-15-1 CAPLUS
CN Benzaldehyde, 2-(2-aminophenyl)hydrazone (CA INDEX NAME)



L16 ANSWER 3063 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1907:2195 CAPLUS
DOCUMENT NUMBER: 1:2195
ORIGINAL REFERENCE NO.: 1:558h-i,559a-c
TITLE: Studies on Unsaturated Acids. IV. On Iodophenylhydrazine
AUTHOR(S): Fichter, Fr.; Philipp, Karl
CORPORATE SOURCE: Chemical Institute, Univ. of Basel
SOURCE: Journal fuer Praktische Chemie (Leipzig) (1907), 74, 297-339
CODEN: JPCEAO; ISSN: 0021-8383
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB (1) 5-Iodo-2-acetaminotoluene, C9H10ONI, from o-acettoluidide and iodine chloride, m. 168°. (2) 5-Iodo-2-amino-toluene, C7H8NI, m. 88°. (3) 5-Iodo-o-tolylhydrazine, C7H9N3I, by reduction of the potassium salt of diazolodotoluenesulphonic acid with Sn and HCl, m. 98°. (4) Benzylidene-4-iodophenylhydrozone, C19H21N2I, from benzaldehyde and 4-iodophenylhydrazine, m. 121°. (5) 4-Iodobenzylidenephenylhydrazone, C13H11N2I, m. 90°. (6) Benzylidine-2,4-diiodophenylhydrazone, C13H19N2I3, from 2,4-diiodophenylhydrazine, m. 104. (7) Benzylidine-5-iodo-o-tolylhydrazone, C14H13N2I, from (3), m. 102-103°. (8) II-p-Iodoformazylbenzene, C19H16N4I, from benzylidine-4-iodo-phenylhydrazone and diazobenzene, m. 185-186°. (9) Sodium II-p-iodoformazylbenzene-I-m-sulphonate, C19H14N4ISO8Na, from diazobenzene and 4-iodophenyl-hydrazone of benzaldehyde-m-sulphonic acid. (10) II-2,4-Diiodoformazylbenzene, C19H14N4I2, m. 186°. (11) II-5-Iodotolylformazylbenzene, C29H17N4I, from (7) and diazobenzene, m. 167°. (12) I-p-Iodophenyl-3-methyl-5-pyrazolone, C19H3N3I, from 4-iodophenylhydrazine and acetoacetic ester, m. 196°. (13) 1-p-Iodophenyl-3-methyl-4-isonitroso-5-pyrazolone, C19H8O2N3I, m. 189°. (14) 1-p-Iodophenyl-2,3-di-methyl-5-pyrazolone-p-iodoantipyrine, C11H11ON2I, by methylation of (12), m. 126°; more poisonous than antipyrine. (15) 1-o,p-Diiodo-3-methyl-5-pyrazolone, C17H7ON2I2, m. 153°. (16) 1-Iodo-o-tolyl-3-methyl-5-pyrazolone, C11H11ON2I, m. 194°; gives an isonitroso derivative, C11H11O2N3I, m. 181°. (17) p-Iodophenylmethyl-3-pyrazolone, C10H9ON2I, or its isomeric 5-pyrazolone, from 4-iodophenylhydrazine and mesadibrompyrotaric acid, m. 126°.
IT 65447-26-9P
RL: SPN (Synthetic preparation); PRP (Properties); PREP (Preparation)
(Studies on Unsaturated Acids. IV. On Iodophenylhydrazine)
RN 65447-26-9 CAPLUS
CN Benzaldehyde, 2-(4-iodophenyl)hydrazone (CA INDEX NAME)

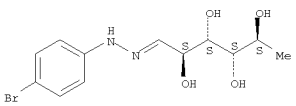


L16 ANSWER 3064 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1906:64782 CAPLUS
DOCUMENT NUMBER: 0:64782
TITLE: The relation between absorption spectra and chemical constitution. Part VI. The phenyl hydrazones of simple aldehydes and ketones
AUTHOR(S): Baly, Edward Charles Cyril; Tuck, William Bradshaw
CORPORATE SOURCE: Spectroscopic Laboratory, University College, London, London
SOURCE: Journal of the Chemical Society, Transactions (1906), 89, 982-998
CODEN: JCHTA3; ISSN: 0368-1645
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB Spectroscopic examination of several simple aldehydes and ketones revealed that phenyl hydrazones change into the azo-configuration, that is, the formation of benzylphenyldiazene, under the influence of light. In the experiments, the hydrazones of formaldehyde, acetaldehyde, propylaldehyde, benzaldehyde, acetophenone, and diethylketone were analyzed. With the exception of formaldehydephenylhydrazone, which underwent polymerization, the phenylhydrazones of simple aliphatic aldehydes and ketones changed in solution to the corresponding azo-compounds upon light exposure. This change was inhibited by the presence of acetic acid and by the substitution of bromine in the phenylhydrazine nucleus. The acetophenone compounds were exactly analogous to those of the aliphatic derivatives. The phenylhydrazones of the three nitrobenzaldehydes do not exist in the azo-form, mainly because of their quinonoid structure. Paranitrophenylhydrazine and its acetone derivative also exist in the quinonoid form.
IT 52163-08-3, Acetaldehyde-p-bromophenylhydrazone
(relation between absorption spectra and chemical constitution, phenyl hydrazones of simple aldehydes and ketones)
RN 52163-08-3 CAPLUS
CN Acetaldehyde, 2-(4-bromophenyl)hydrazone (CA INDEX NAME)



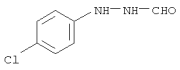
L16 ANSWER 3065 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1906:64380 CAPLUS
DOCUMENT NUMBER: 0:64380
TITLE: Action of hydrogen peroxide on carbohydrates in the presence of ferrous sulphate. IV
AUTHOR(S): Morrell, Robert Selby; Crofts, James Murray
CORPORATE SOURCE: Gonville and Caius College Laboratory, Cambridge
SOURCE: Journal of the Chemical Society, Transactions (1903), 83, 1284-1292
CODEN: JCHTA3; ISSN: 0368-1645
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB The action of p-bromophenylhydrzine on aqueous solutions of arabinose and rhamnose, at the ordinary temperature was studied. The corresponding osazones are formed, while arabinose and rhamnose react with the same base under similar conditions to give hydrazones. Phenylbenzylhydrazine has not yieled an osazone or a hydrazone with rhamnosone, but probably gives rise to a ketohydrazide. The explanation of this reaction must be that on concentrating aqueous solution of an osone in the presence of traces of iron, oxidation of the osone to a keto-acid takes place. Besides the osones, various acids were formed in the oxidation of carbohydrates by hydrogen peroxide in the presence of ferrous sulfate, and these were removed by means of normal and basic lead acetates.
IT 108691-56-1, Rhamnose-p-bromophenylhydrazone
(action of hydrogen peroxide on carbohydrates in presence of ferrous sulfate)
RN 108691-56-1 CAPLUS
CN Rhamnose, (p-bromophenyl)hydrazone (6CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

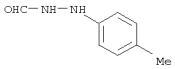


L16 ANSWER 3066 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1906:63321 CAPLUS
DOCUMENT NUMBER: 0:63321
TITLE: Chlorinated phenylhydrazines. Part II
AUTHOR(S): Hewitt, J. T.
CORPORATE SOURCE: University Laboratory, Cambridge, Cambridge
SOURCE: Journal of the Chemical Society, Transactions (1893), 63, 868-873
CODEN: JCHTA3; ISSN: 0368-1645
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB The general features of the reactions involved and the products produced in the preparation of chlorinated phenylhydrazines are discussed, including the chemical properties and composition of the reaction products. Focus is directed on the major chlorinated phenylhydrazines such as orthochlorophenylhydrazine sulphate, ethylic salt of pyruvic acid orthochlorophenylhydrazine, metachlorophenylhydrazine, metachlorophenyhydrazine sulphate, metachlorophenyhydrazine nitrate, metachlorophenylsemicarbazide, metachlorophenylphenylthiosemicarbazide, metachlorophenylurazole and benzaldehydemetachlorophenylhydrazone. Also, the following chlorinated phenylhydrazines were studied: pyruvic acid metachlorophenylhdyrazone, parachlorophenylhdyrazine, parachlorophenylsemicarbazide, benzaldehydeparachlorphenylhydrazone and pyruvic acid parachlorophenylhydrazone.
IT 2989-41-5, Benzaldehyde-m-chlorophenylhydrazone
(experiment on chlorinated phenylhydrazines)
RN 2989-41-5 CAPLUS
CN Benzaldehyde, 2-(3-chlorophenyl)hydrazone (CA INDEX NAME)

L16 ANSWER 3067 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1906:63096 CAPLUS
DOCUMENT NUMBER: 0:63096
TITLE: Chlorinated phenylhydrazines
AUTHOR(S): Hewitt, J. T.
CORPORATE SOURCE: University Laboratory, Cambridge, Cambridge
SOURCE: Journal of the Chemical Society, Transactions (1891), 59, 209-214
CODEN: JCHTA3; ISSN: 0368-1645
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB Orthochlorophenylhydrazine and some of its more important derivatives and an account of the action of carbamide on parachlorophenylhydrazine are presented. The orthochlorophenylhydrazine hydrochloride was prepared from orthochloroaniline. Orthochlorophenylsemicarbazide is produced on adding a solution of potassium cyanate to orthochlorophenylhydrazine dissolved in water. The action of parachlorophenylhydrazine on ethyl carbamate, and the action of chloroform and alcoholic potash on parachlorophenylhydrazine are described.
IT 13116-28-4, Formyl-parachlorophenylhydrazine
(study of chlorinated phenylhydrazines)
RN 13116-28-4 CAPLUS
CN Hydrazinecarboxaldehyde, 2-(4-chlorophenyl)- (9CI) (CA INDEX NAME)



L16 ANSWER 3068 OF 3068 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1906:62959 CAPLUS
DOCUMENT NUMBER: 0:62959
TITLE: Action of chloroform and alcoholic potash on hydrazines. Part II
AUTHOR(S): Ruhemann, S.
CORPORATE SOURCE: University Laboratory, Cambridge, Cambridge
SOURCE: Journal of the Chemical Society, Transactions (1889), 55, 242-249
CODEN: JCHTA3; ISSN: 0368-1645
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB The action of methyl iodide on diphenyltetrazine, bromine-derivatives of diphenyltetrazine, and the action of chloroform and alcoholic potash on paratolylhydrazine are described.
IT 38577-24-1, Formyl-p-tolylhydrazine
(action of chloroform and alc. potash on hydrazines)
RN 38577-24-1 CAPLUS
CN Hydrazinecarboxaldehyde, 2-(4-methylphenyl)- (CA INDEX NAME)



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